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SG-17 DST Pressure Response Charts

U. S. DEPARTMENT OF THE INTERIOR

PROTOTYPE OIL SHALE LEASING PROGRAM

TRACT C-b

QUARTERLY REPORT #3

(Through May 31, 1975)

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Submitted to:

Mr. Peter A. Rutledge
Area Oil Shale Supervisor
Conservation District
U. S. Geological Survey
Grand Junction, Colorado

By:

Ashland Oil, Inc.
Atlantic Richfield Company
Shell Oil Company, Operator
The Oil Shale Corporation

JULY 15, 1975

SHOUT
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IT

U. S. DEPARTMENT OF THE INTERIOR

PROTOTYPE OIL SHALE LEASING PROGRAM

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SG-17 DST Pressure Response Charts

TABLE II B-48
COREHOLE SG-17
PRESSURE-POTENTIAL CHARTS
DRILLSTEM TESTS*

DST No.	Depth	Pressure Gauge
3	822-869	Johnston Lower
4	866-919	Johnston Upper
5	919-970	Johnston Lower
		Johnston Middle
		Johnston Upper
6	967-1017	Johnston Lower
		Johnston Upper
8	1066-1116	Johnston Lower
		Johnston Upper
9	1116-1166	Johnston Upper
10	1164-1212	Sperry Sun
11	1200-1224	Johnston Lower
		Johnston Upper
13	1224-1250	Johnston Lower
		Johnston Upper
14	1251-1280	Johnston Lower
15	1280-1309	Johnston Upper
16	1308-1336	Sperry Sun
		Johnston Upper
18	1373-1419	Johnston Lower
19	1423-1470	Sperry Sun
		Johnston Lower
20	1423-1470	Johnston Lower
22	1428-1522	Johnston Upper
23	1514-1572	Johnston Upper
25	1618-1670	Johnston Lower
26	1668-1720	Johnston Lower
		Johnston Upper
27	1711-1770	Johnston Lower
28	1764-1768	Johnston Lower
30	1869-1920	Sperry Sun
		Johnston Upper
31	1918-1970	Johnston Lower
32	1968-2020	Sperry Sun
33	2018-2070	Johnston Lower
34	2120-2170	Johnston Lower
		Johnston Upper
35	2220-2270	Sperry Sun
		Johnston Lower
36A	2320-2370	Sperry Sun
		Johnston Upper
36B	2315-2370	Johnston Lower
		Johnston Upper
37	2395-2460	Sperry Sun
		Johnston Upper

* Other charts were reported in Quarterly Report #2.

GOLDER ASSOCIATES

PROGRAM - CHRAP

BORE 3G 17 DST 03 DATE 11NOV78 CARDDECK 3 JOHNSTON STEM

10/02/75-10:55:31

/COMMENT INTERVAL TESTED 822-869 FT. PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	J-805
BOMB RANGE (PSI)		=	2800
POSITION OF BOMB (FEET)		=	850.00
LOCATION OF BOMB		=	STEM
DEPTH OF PACKERS (FEET)	UPPER	=	818.00
	MIDDLE	=	822.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	869.00

THIS RECORD CONTAINS 50 CARDS

BORE 3G 17 DST 03 DATE 11NOV78 CARDDECK 3 JOHNSTON STEM

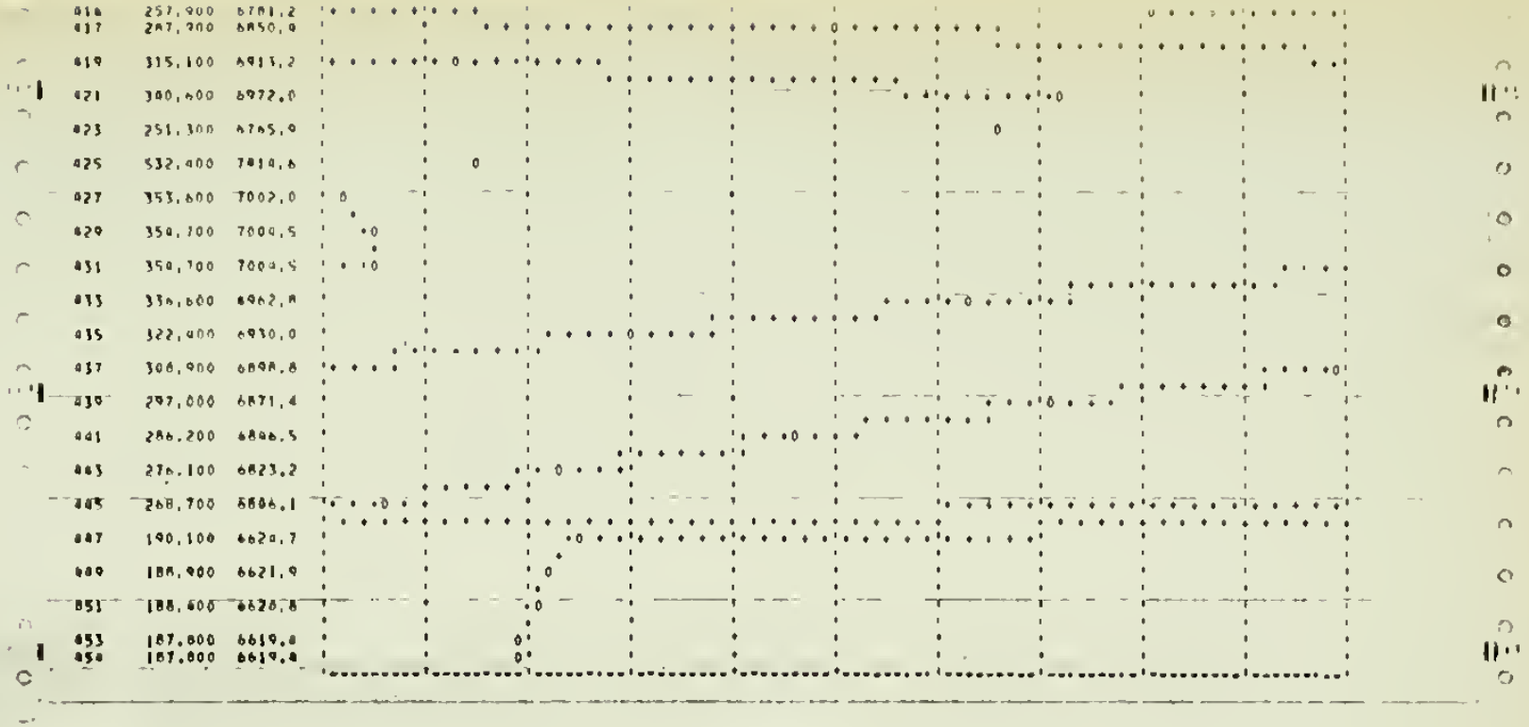
TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
450	28.800	6252.5
3	175.300	6590.5
6	175.300	6590.5
9	175.300	6590.5
12	175.300	6590.5
15	175.300	6590.5
18	175.300	6590.5
21	175.300	6590.5
24	175.300	6590.5
27	175.300	6590.5
30	175.300	6590.5
33	175.300	6590.5
36	175.300	6590.5
38	175.300	6590.5
0	53.700	6309.9
1	75.800	6360.9
2	86.500	6385.6
3	99.000	6414.5
4	111.800	6443.1
5	120.500	6464.1
6	127.200	6479.5
7	132.900	6492.7
8	138.600	6505.8
9	143.700	6517.6
10	148.200	6528.0
11	151.600	6535.8
12	154.400	6542.3
13	157.200	6548.8
14	159.500	6554.1
15	161.200	6558.0
16	161.200	6558.0
17	163.500	6563.3
18	164.600	6565.8
19	165.200	6567.2
20	166.300	6569.8
21	166.900	6571.2
22	167.400	6572.3
23	168.400	6575.1
24	169.100	6576.2
25	169.700	6577.6
26	169.700	6577.6
27	170.200	6578.8
28	170.200	6578.8
29	170.800	6580.2
30	171.400	6581.5
31	171.400	6581.5
32	171.400	6581.5
33	171.400	6581.5
34	171.900	6582.7
35	171.900	6582.7
36	172.500	6584.1
37	172.500	6584.1
38	172.500	6584.1
39	172.500	6584.1
40	172.500	6584.1
45	173.100	6585.5
50	173.600	6586.6
55	174.200	6588.0
60	174.200	6588.0

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

0 10 20 30 40 50 60 70 80 90 0

65	174,200	6588,0
70	174,200	6588,0
75	174,200	6588,0
80	174,200	6588,0
85	174,800	6589,0
90	174,800	6589,4
95	174,800	6589,4
100	175,300	6590,5
105	175,300	6590,5
110	175,300	6590,5
115	175,300	6590,5
120	175,900	6591,9
125	175,900	6591,9
130	175,900	6591,9
135	175,900	6591,9
140	176,500	6593,3
145	176,500	6593,3
150	176,500	6593,3
155	177,000	6594,5
160	177,000	6594,5
165	177,000	6594,5
170	177,000	6594,5
175	177,600	6595,8
180	177,600	6595,8
185	179,300	6599,8
190	179,900	6601,2
195	181,600	6605,1
200	181,600	6605,1
205	181,600	6605,1
210	181,600	6605,1
215	181,600	6605,1
216	181,600	6605,1
217	201,300	6650,8
218	169,700	6577,6
220	168,000	6573,7
222	168,000	6573,7
224	164,000	6564,5
226	163,500	6563,3
228	133,500	6490,1
230	132,900	6492,7
232	132,900	6492,7
234	132,900	6492,7
236	133,500	6494,1

238	133,500	6490,1
240	133,500	6490,1
242	133,500	6490,1
244	133,500	6490,1
246	133,500	6490,1
248	133,500	6490,1
250	133,500	6490,1
252	132,900	6492,7
254	132,900	6492,7
256	132,900	6492,7
258	132,900	6492,7
260	132,900	6492,7
262	102,900	6423,5
263	125,000	6474,5
264	132,900	6492,7
265	133,700	6508,8
266	145,400	6521,5
267	150,400	6531,1
268	154,900	6542,3
269	157,200	6548,8
270	160,100	6555,5
271	162,300	6560,5
272	164,000	6564,5
273	164,600	6565,8
274	165,700	6568,0
275	166,800	6570,9
276	168,000	6573,7
277	168,800	6575,1
278	170,200	6578,8
279	170,200	6578,8
280	170,200	6578,8
281	170,800	6580,2
282	171,400	6581,5
283	175,300	6590,5
284	175,300	6590,5
285	175,300	6590,5
286	175,100	6590,5
287	175,100	6590,5
288	175,300	6590,5
289	175,300	6590,5
290	175,100	6590,5
291	175,300	6590,5
292	175,300	6590,5
293	175,300	6590,5
294	175,100	6590,5
295	175,300	6590,5
296	175,300	6590,5
297	175,300	6590,5
302	175,300	6590,5
307	175,300	6590,5
312	175,300	6590,5
317	175,300	6590,5
322	175,300	6590,5
327	175,300	6590,5
332	175,300	6590,5
337	175,300	6590,5
342	175,300	6590,5
347	175,300	6590,5
352	175,300	6590,5
357	175,300	6590,5
362	175,900	6591,9
367	175,900	6591,9
369	175,900	6591,9
371	187,200	6618,0
373	196,300	6639,0
375	203,600	6655,8
377	209,900	6670,4
379	215,500	6683,3
381	218,900	6691,2
383	218,400	6691,2
385	216,900	6687,9
387	209,900	6670,4
389	205,100	6659,8
391	203,100	6650,7
393	224,000	6702,9
395	241,500	6743,5
397	257,600	6780,0
399	271,500	6812,5
401	284,000	6841,4
403	295,100	6867,5
405	305,500	6891,0
406	305,500	6891,0
407	300,400	6879,2
409	288,500	6851,8
411	276,600	6824,3
413	264,400	6800,8
415	257,900	6781,2



II B-1027

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 3

Date: Nov. 11, 1974 Interval tested: 822-869 ft.

Pressure gauge: Johnston (Lower)

Formation tested: Parachute Creek above the A Groove.

Golder Associates

SG - 17 D.S.T. - 3

GOLDER ASSOCIATES

P R O G R A M - C A B A P

BORE SG 17 DST 04 DATE 12NOV78 CARDDECK A JOHNSTON STEM

03/11/TS-15741139

/COMMENT INTERVAL TESTED 866-919 FT, PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	J-029
BOMB RANGE (PSI)		=	2800
POSITION OF BOMB (FEET)		=	850.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	863.00
	MIDDLE	=	866.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	919.00

THIS RECORD CONTAINS 51 CARDS

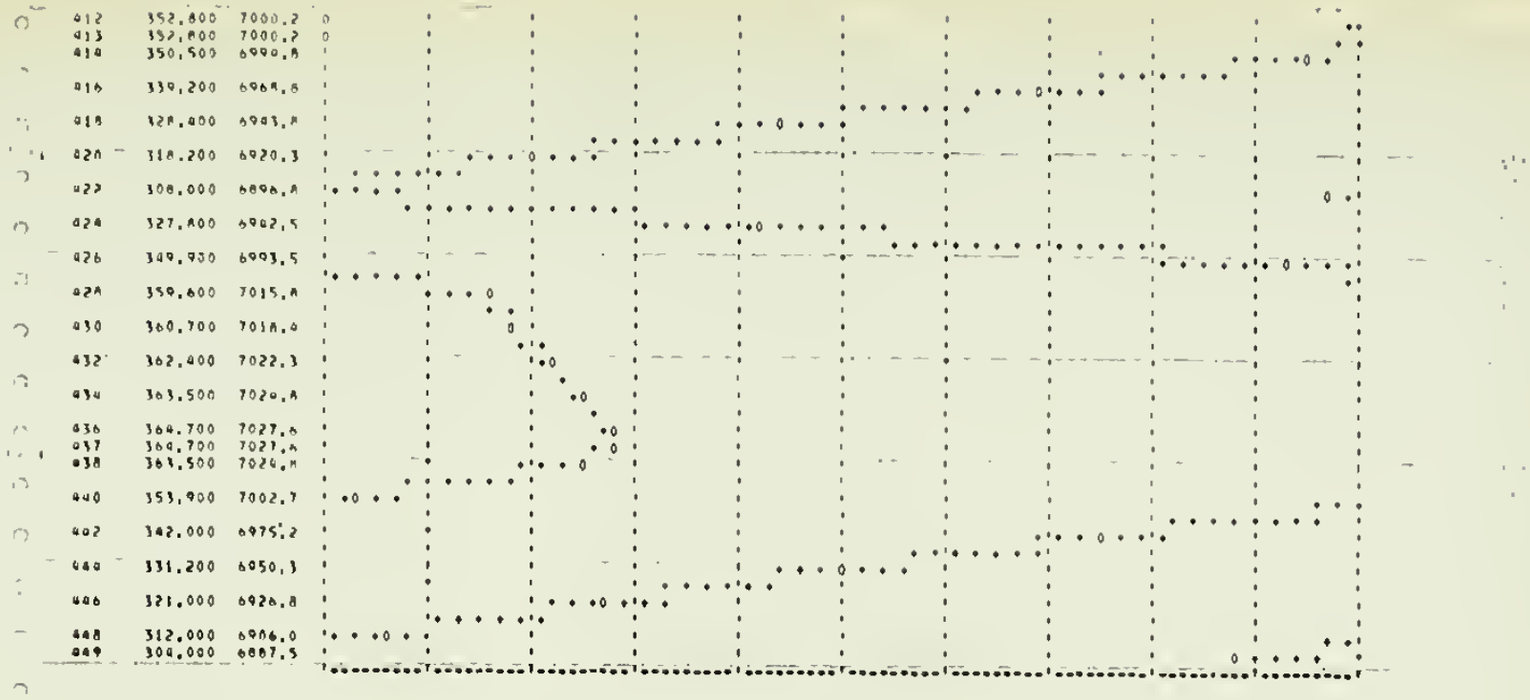
BORE SG 17 DST 04 DATE 12NOV78 CARDDECK A JOHNSTON STEM

• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	11.700	6213.0
3	176.500	6593.3
6	177.700	6596.1
9	177.700	6596.1
12	177.700	6596.1
15	177.700	6596.1
18	177.700	6596.1
21	178.200	6597.2
24	178.200	6597.2
27	178.800	6598.6
30	178.800	6598.6
33	178.800	6598.6
36	178.800	6598.6
39	178.800	6598.6
0	22.900	6237.7
1	29.800	6256.6
2	40.600	6279.7
3	50.200	6301.6
4	59.300	6322.6
5	66.600	6339.7
6	70.000	6356.6
7	81.400	6375.6
8	88.700	6390.7
9	97.200	6410.3
10	101.500	6420.6
11	109.700	6439.2
12	114.800	6450.9
13	119.300	6461.3
14	123.300	6470.5
15	127.300	6479.6
16	131.200	6488.6
17	135.200	6498.0
18	138.600	6505.6
19	141.400	6512.3
20	144.300	6519.0
21	146.500	6526.1
22	149.300	6530.5
23	151.600	6535.6
24	152.700	6538.6
25	154.400	6542.3
26	155.000	6543.7
27	156.100	6546.2
28	157.300	6549.0
29	159.000	6552.9
30	160.100	6555.5
31	160.700	6556.8
32	161.800	6559.4
33	162.400	6560.8
34	163.500	6563.3
35	164.100	6564.7
36	165.200	6567.2
37	165.800	6568.6
38	166.300	6569.8
39	166.900	6571.2
40	167.500	6572.5
41	168.000	6573.7
42	168.600	6575.1
43	169.200	6576.5
44	169.700	6577.8
45	170.300	6579.0
46	170.300	6579.0
47	170.900	6580.4
48	171.400	6581.5
49	171.900	6582.7
50	172.000	6582.9
51	172.600	6584.3
52	172.600	6584.3
53	173.100	6585.5

54	173,100	6585,5
55	173,700	6586,4
56	173,700	6586,8
57	173,700	6586,4
58	174,300	6588,2
59	174,600	6589,0
60	174,800	6589,0
70	176,000	6592,2
80	176,500	6593,3
90	177,100	6594,7
100	177,100	6594,7
110	177,100	6594,7
120	177,100	6594,7
130	177,100	6594,7
140	177,100	6594,7
150	177,100	6594,7
160	177,100	6594,7
170	177,700	6596,1
180	177,700	6596,1
190	178,800	6598,6
200	179,900	6601,2
210	182,200	6606,5
220	183,900	6610,8
230	183,900	6610,8

235	183,900	6610,9
236	199,400	6607,1
237	137,500	6503,3
239	123,900	6471,9
241	122,200	6468,6
243	119,300	6461,3
245	119,300	6461,3
247	119,300	6461,3
249	119,300	6461,3
251	118,800	6460,2
253	118,800	6460,2
255	118,800	6460,2
257	118,800	6460,2
259	118,800	6460,2
261	118,800	6460,2
263	118,800	6460,2
265	118,800	6460,2
267	118,200	6458,8
269	118,200	6458,8
271	118,200	6458,8
273	118,800	6460,2
275	118,800	6460,2
277	118,800	6460,2
279	118,800	6460,2
281	118,800	6460,2
283	118,800	6460,2
285	118,800	6460,2
287	118,800	6460,2
289	118,800	6460,2
290	118,800	6460,2
291	96,100	6407,8
293	96,100	6407,8
295	113,100	6447,8
295	119,150	6461,3
297	124,400	6473,1
297	129,500	6484,8
298	132,800	6491,5
299	136,900	6501,9
330	140,900	6511,2
101	144,300	6519,0
302	144,500	6520,1
303	149,800	6529,4
304	150,500	6533,3
305	152,700	6539,4
306	153,900	6541,7
107	155,080	6543,7
308	155,400	6545,1
309	156,100	6546,2
311	157,300	6549,0
311	158,400	6551,5
312	159,000	6552,9
113	160,100	6555,5
314	160,700	6556,8
315	161,800	6559,4
316	162,900	6561,9
317	164,100	6564,7
318	164,800	6565,8
319	165,200	6567,2
320	166,300	6569,8
321	166,900	6571,2
322	167,500	6572,5
323	168,000	6571,7
324	168,200	6576,5
325	170,300	6579,0
326	170,900	6580,4
327	170,900	6580,4
328	170,900	6580,4
333	172,600	6584,3
334	174,300	6588,2
303	175,900	6590,8
308	176,500	6593,1
350	176,500	6593,3
352	187,900	6619,6
350	196,900	6640,4
356	204,900	6658,8
358	213,900	6678,5
360	219,400	6692,8
362	225,300	6705,9
364	229,200	6714,9
366	229,200	6714,9
367	229,200	6714,9
368	226,900	6709,5
370	221,900	6698,1
372	217,900	6688,8
374	215,100	6682,0
376	230,900	6718,8
378	248,500	6759,5
388	266,100	6800,1
382	281,800	6835,4
384	295,000	6866,8
386	308,000	6896,8
388	314,800	6921,7
389	314,800	6921,7
390	314,800	6912,5
392	304,600	6888,9
394	295,500	6867,9
396	287,000	6848,3
398	280,800	6834,0
400	314,800	6912,5
402	303,100	6877,8
404	350,500	6994,8
406	350,500	6994,8
408	350,500	6994,8
410	350,500	6994,8



II B-1028

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 4

Date: Nov. 12, 1974 Interval tested: 866-919 ft.

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek above the A Groove

Golder Associates

SG - 17 D.S.T. - 4

GOLDER ASSOCIATES

PROGRAM - CRHAP

BORE SG 17 DST 05 DATE 18NOV70 CARDDECK B JOHNSTON STEM

03/11/75-0113A155

/COMMENT INTERVAL TESTED 919-970 FT. PARACHUTE CREEK ABOVE THE A GROOVE

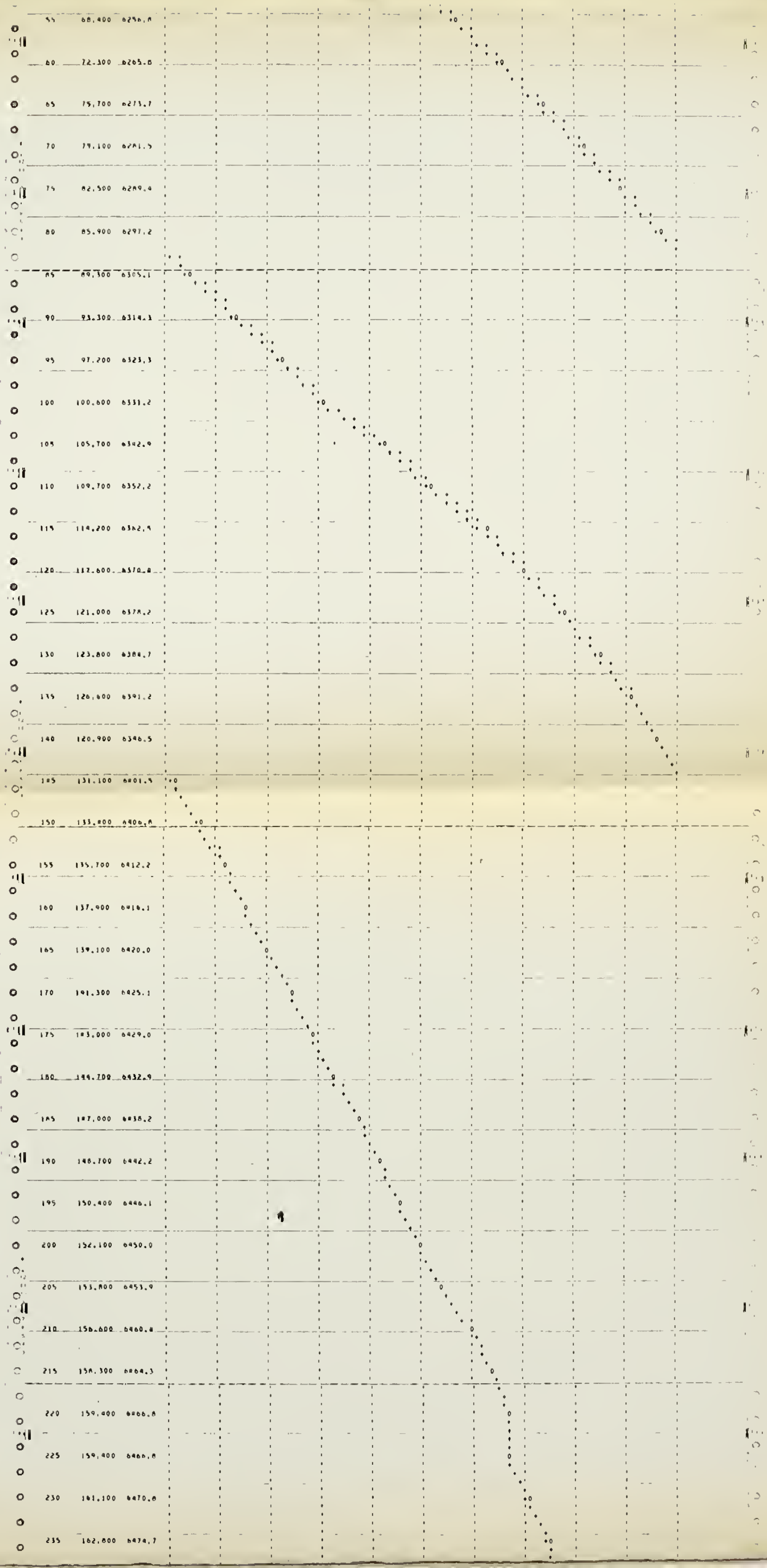
WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	J-805
BOMB RANGE (PSI)		=	2800
POSITION OF BOMB (FEET)		=	937.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	915.00
	MIDDLE	=	919.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	970.00

THIS RECORD CONTAINS 98 CARDS

BORE SG 17 DST 05 DATE 18NOV70 CARDDECK B JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	15.200	6134.1	0
2	220.500	6607.8	0
4	220.500	6607.8	0
6	220.500	6607.8	0
8	220.500	6607.8	0
10	220.500	6607.8	0
12	220.500	6607.8	0
14	220.500	6607.8	0
16	220.500	6607.8	0
18	220.500	6607.8	0
20	220.500	6607.8	0
22	220.500	6607.8	0
24	220.500	6607.8	0
26	220.500	6607.8	0
28	220.500	6607.8	0
30	220.500	6607.8	0
32	220.500	6607.8	0
34	220.500	6607.8	0
36	220.500	6607.8	0
38	220.500	6607.8	0
0	23.700	6153.7	0
5	23.700	6153.7	0
10	27.600	6162.7	+0
15	32.200	6173.3	+0
20	36.700	6183.7	+0
25	41.800	6195.5	+0
30	46.900	6207.2	+0
35	50.800	6216.2	+0
40	55.900	6228.0	+0
45	60.500	6238.6	+0
50	63.800	6246.2	+0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85 89.300 6305.1
90 93.300 6314.3
95 97.200 6323.3
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105 105.700 6342.9
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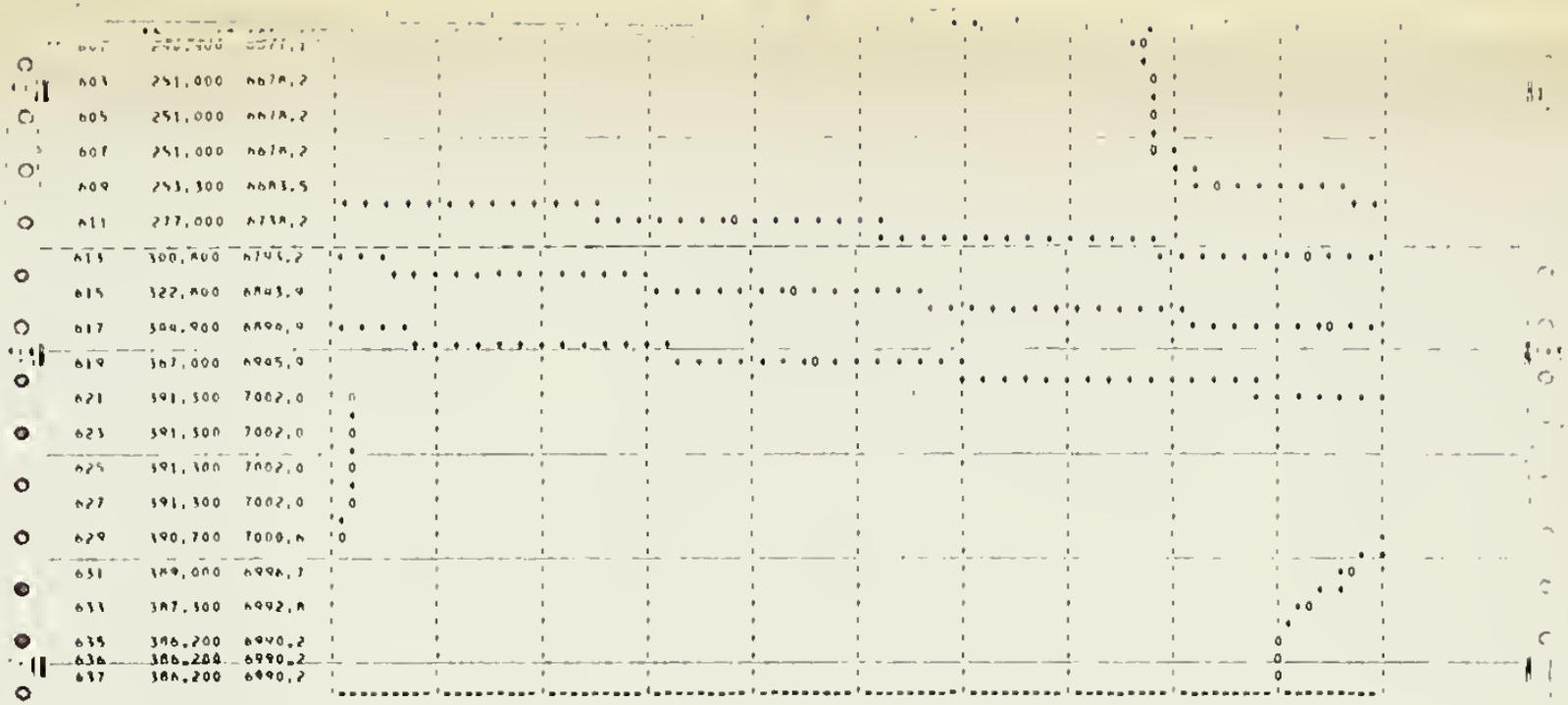
145 131.100 6401.5
150 133.800 6408.8
155 135.700 6412.2
160 137.900 6418.1
165 139.100 6420.0
170 141.300 6425.1
175 143.000 6429.0
180 144.700 6432.9
185 147.000 6438.2
190 148.700 6442.2
195 150.400 6446.1
200 152.100 6450.0
205 153.800 6453.9
210 156.000 6460.8
215 156.300 6464.3
220 159.400 6466.8
225 159.400 6466.8
230 161.100 6470.8
235 162.800 6474.7

280	163.900	6477.2
285	164.500	6478.6
290	165.600	6481.2
295	166.200	6482.5
300	167.300	6485.1
305	167.900	6486.5
310	169.000	6489.0
315	169.500	6490.2
320	170.700	6492.9
325	171.300	6494.3
330	172.400	6496.8
335	173.000	6498.2
340	174.100	6500.8
345	174.700	6502.2
350	175.800	6504.7
355	176.400	6506.1
360	176.900	6507.2
365	178.100	6510.0
370	179.200	6512.5
375	179.800	6513.9
380	180.900	6516.5
385	182.000	6519.0
390	182.600	6520.4
395	183.700	6522.9
400	184.900	6525.7
405	186.000	6528.2
410	186.600	6529.6
415	187.100	6530.8
420	188.300	6533.5
425	188.800	6534.7
430	189.900	6537.2
435	190.500	6538.6
440	191.100	6540.0
445	193.300	6545.1
450	197.300	6554.3
455	200.100	6560.8
460	200.100	6560.8

425	200,100	6560,8
430	200,100	6560,8
431	200,100	6560,8
432	212,000	6560,2
433	169,000	6889,0
435	178,100	6505,8
437	185,900	6526,8
439	148,100	6890,8
441	137,900	6417,2
443	135,700	6412,2
445	135,100	6410,8
447	145,100	6433,8
449	138,500	6409,8
451	137,900	6416,1
453	137,900	6417,2
455	137,900	6417,2
457	137,900	6417,2
459	137,900	6416,1
461	137,900	6416,1
463	137,900	6416,1
465	136,800	6414,7
467	136,800	6414,7
469	136,800	6414,7
471	111,300	6355,8
473	111,300	6355,8
474	111,300	6355,8
479	117,600	6370,9
484	122,100	6380,8
489	123,800	6380,7
494	127,700	6393,7
499	130,600	6400,9
504	133,400	6406,8
509	135,700	6412,2
514	136,200	6413,3
519	137,900	6417,2
524	140,800	6423,9
529	143,000	6429,0
534	145,300	6434,3
539	147,500	6439,0
544	149,800	6444,7
549	152,100	6450,0
554	153,800	6453,9
559	155,500	6457,8
564	157,200	6461,8
569	159,400	6466,8
574	160,500	6469,0
579	162,800	6474,7
584	163,900	6477,2
585	163,900	6477,2
587	176,900	6507,2
589	189,400	6536,1
591	201,800	6564,7
593	214,300	6593,5
595	226,700	6622,2
597	238,900	6650,1
599	249,400	6674,3



II B-1029

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 5

Date: Nov. 14, 1974 Intervol tested: 919'-970'

Pressure gouge: Johnston (Lower)

Formotion tested: Parachute Creek above the A Groove.

Golder Associates

SG - 17 D.S.T. - 5

GOLDER ASSOCIATES

PROGRAM * CHMAP

BORE SG 17 DS1 05 DATE 19NOV79 CARDFILM H JOHNSTON STEM

03/11/75-01137190

/COMMENT INTERVAL TESTED 919-970 FT, PARACHUTE CREEK ABOVE THE A GROOVE

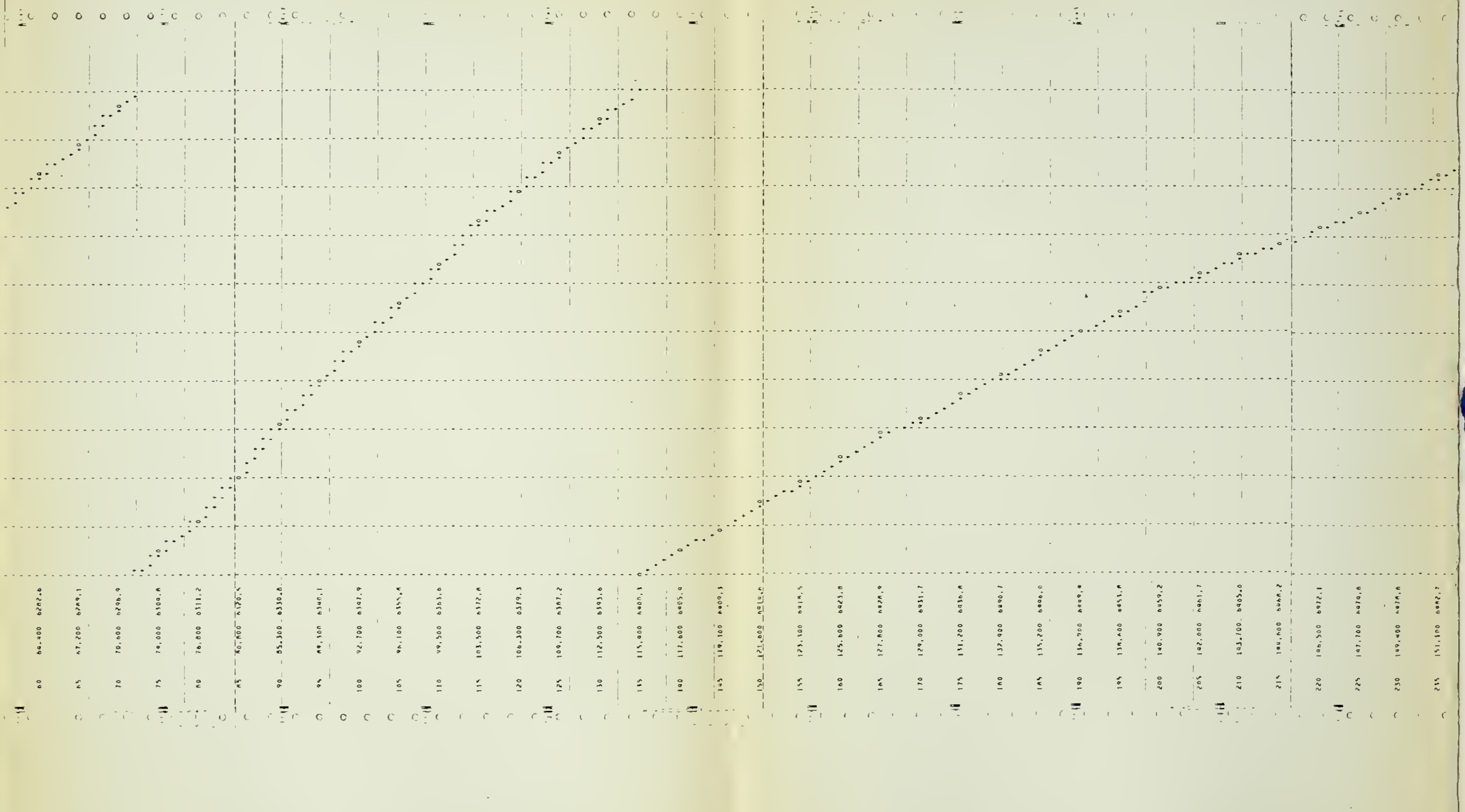
WELL DIAMETER (INCHES)	=	6.15
GROUND ELEVATION (FEET)	=	1036.00
BOMB NO.	=	J-029
BOMB RANGE (PSI)	=	2000
POSITION OF BOMB (FEET)	=	902.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS UPPER	=	915.00
(FEET) MIDDLE	=	919.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	970.00

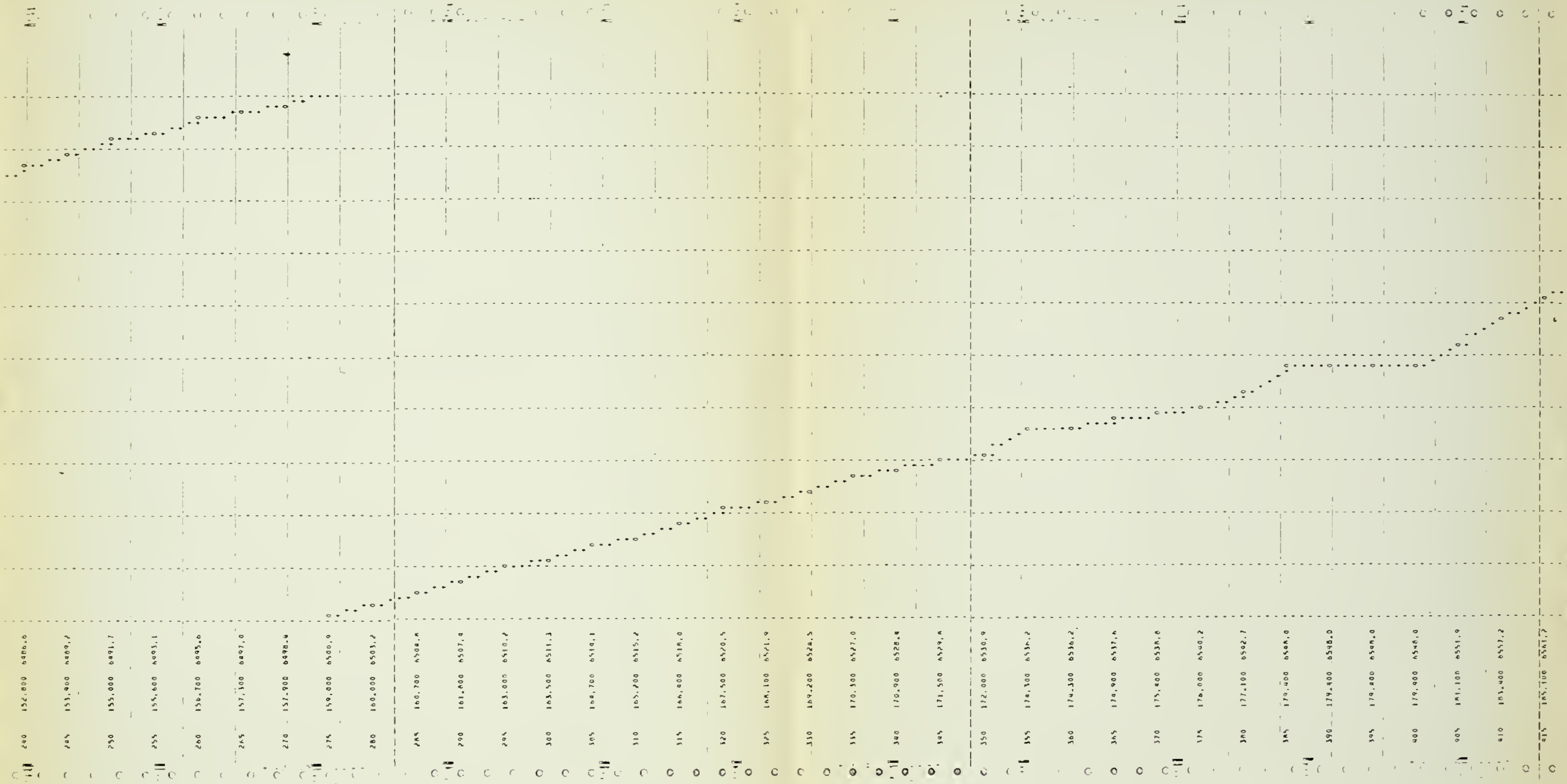
THIS RECORD CONTAINS 49 CARDS

BORE SG 17 DS1 05 DATE 19NOV79 CARDFILM H JOHNSTON STEM

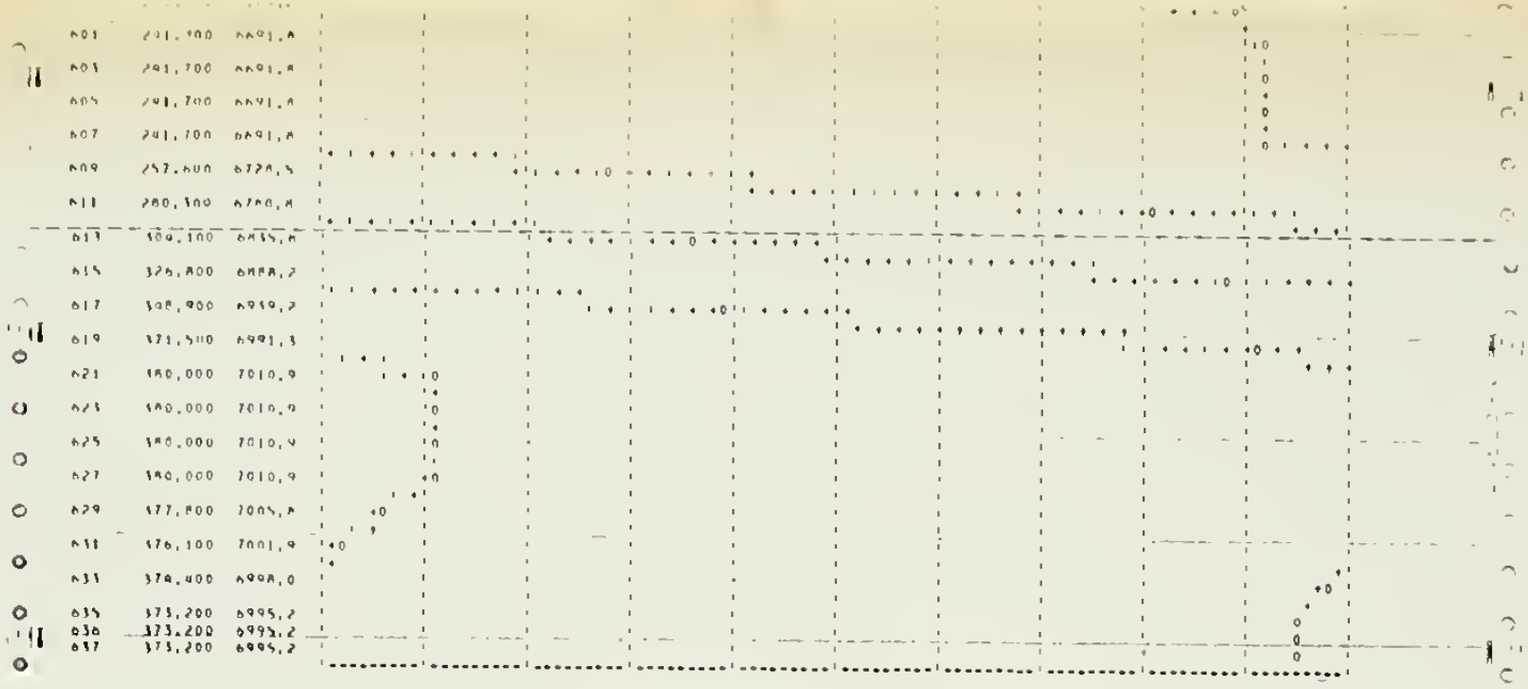
* * * * WATER POTENTIAL CHANGE INDICATION (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	6.600	6149.2
2	208.900	6616.1
4	208.900	6616.1
6	208.900	6616.1
8	208.900	6616.1
10	208.900	6616.1
12	208.900	6616.1
14	208.900	6616.1
16	208.900	6616.1
18	208.900	6616.1
20	208.900	6616.1
22	208.900	6616.1
24	208.900	6616.1
26	208.900	6616.1
28	209.400	6617.2
30	209.400	6617.2
32	209.400	6617.2
34	209.400	6617.2
36	209.400	6617.2
38	209.400	6617.2
0	12.200	6162.2
5	13.400	6164.9
10	19.000	6177.8
15	26.100	6189.6
20	28.700	6200.2
25	33.800	6212.0
30	38.900	6223.8
35	43.800	6234.2
40	47.900	6244.5
45	53.000	6254.3
50	57.000	6265.5
55	61.000	6276.8





420	186.800	6565.1
425	186.800	6565.1
430	186.800	6565.1
431	186.800	6565.1
432	190.800	6595.1
433	157.300	6007.0
435	125.000	6022.5
437	170.300	6536.2
439	130.800	6008.8
441	123.900	6019.9
443	122.700	6017.2
445	122.100	6015.8
447	122.100	6015.8
449	123.900	6019.9
451	126.100	6025.0
453	125.800	6023.8
455	125.800	6023.8
457	125.800	6023.8
459	125.800	6023.8
461	125.800	6023.8
463	125.800	6023.8
465	125.800	6023.8
467	125.800	6023.8
469	125.800	6023.8
471	98.900	6362.2
473	98.900	6362.2
478	98.900	6362.2
479	109.800	6375.0
484	108.800	6384.8
489	112.500	6393.8
496	115.900	6401.5
499	118.800	6408.2
509	121.800	6419.8
509	123.900	6419.9
513	125.800	6423.8
519	126.100	6425.0
529	128.900	6431.5
529	133.500	6442.1
534	130.100	6443.5
539	116.900	6449.9
544	138.800	6451.8
549	141.900	6460.3
550	143.700	6465.6
559	145.900	6469.5
564	142.100	6473.5
569	149.900	6478.8
574	151.800	6483.8
579	152.800	6486.8
584	155.000	6491.7
585	155.000	6491.7
587	167.500	6520.5
589	140.000	6540.8
591	193.000	6570.8
591	205.500	6608.2
595	217.900	6618.8
597	229.800	6644.1
599	240.00	6660.2



II B-1030

NOTES:

C-b TRACT HYDROLOGY	
Borehole no. 17	Drill stem test no. 5
Dote: Nov. 14, 1974	Intervol tested: 919-970 ft.
Pressure gouge: Johnston (Middle)	
Formotion tested: Parachute Creek above the A Groove.	
SG - 17	D.S.T. - 5

Golder Associates

GOLDER ASSOCIATES

PROGRAM - CHBAP

BORE SG 17 DST 05 DATE 18NOV78 CARDDECK H JOHNSTON STEM

03/11/75-01:36:10

/COMMENT INTERVAL TESTED 919-970 FT, PARACHUTE CHECK ABOVE THE A GROOVE

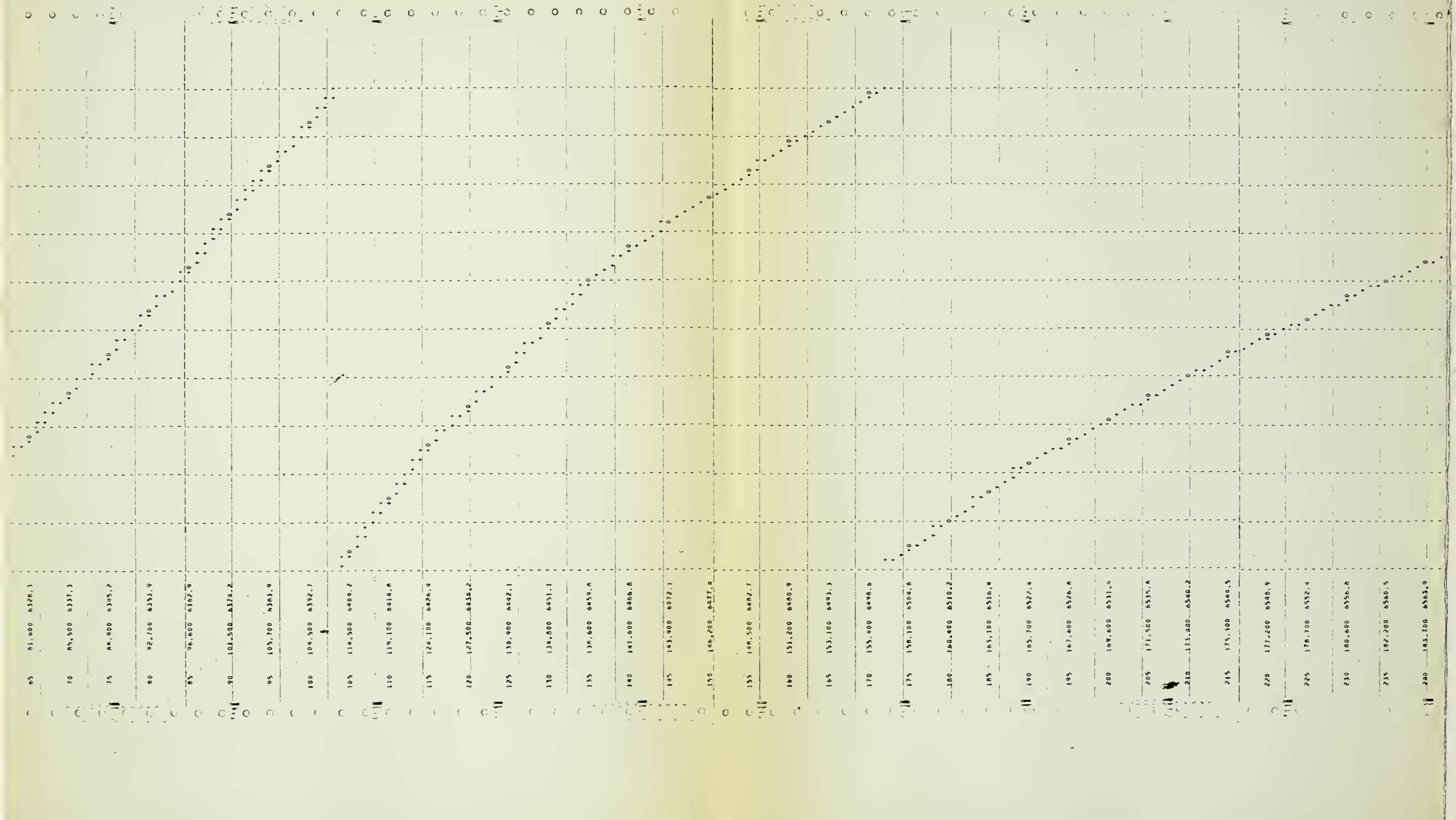
WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	1-259
BOMB RANGE (PSI)		=	1700
POSITION OF BOMB (FEET)		=	896.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	915.00
	MIDDLE	=	919.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	970.00

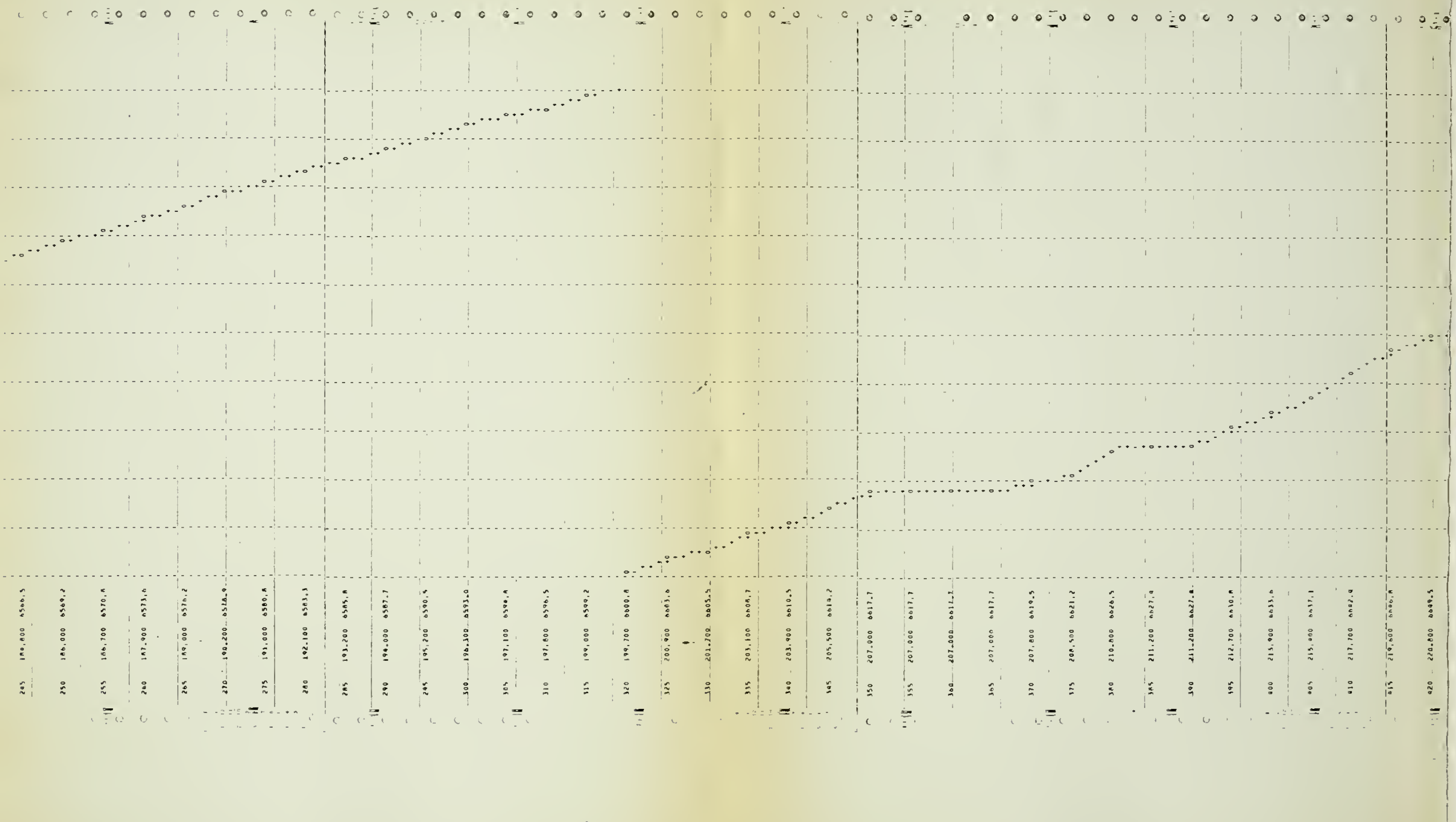
THIS RECORD CONTAINS 98 CARDS

BORE SG 17 DST 05 DATE 18NOV78 CARDDECK H JOHNSTON STEM

• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	7.900	6158.2
2	249.000	6714.6
4	249.800	6716.5
6	249.800	6716.5
8	250.200	6717.4
10	248.700	6713.9
12	248.300	6713.0
14	248.300	6713.0
16	247.900	6712.1
18	247.900	6712.1
20	247.900	6712.1
22	247.900	6712.1
24	247.900	6712.1
26	247.900	6712.1
28	247.900	6712.1
30	247.900	6712.1
32	247.900	6712.1
34	247.900	6712.1
36	247.900	6712.1
38	247.900	6712.1
0	18.000	6172.3
5	18.600	6182.9
10	25.100	6197.9
15	31.200	6212.0
20	36.500	6224.2
25	41.900	6236.7
30	48.000	6250.8
35	53.100	6263.9
40	59.100	6276.0
45	63.300	6286.1
50	69.000	6299.2
55	73.600	6309.8
60	77.800	6319.5

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250 188,000 6569.2
255 188,700 6570.8
260 187,900 6573.6
265 189,000 6570.2
270 190,200 6568.9
275 191,000 6580.8
280 192,100 6583.3
285 193,200 6585.8
290 194,000 6587.7
295 195,200 6590.5
300 196,300 6593.0
305 197,100 6594.8
310 197,800 6596.5
315 199,000 6599.2
320 199,700 6600.8
325 200,900 6603.6
330 201,700 6605.5
335 203,100 6608.7
340 203,900 6610.5
345 205,500 6614.2
350 207,000 6617.7
355 207,000 6617.7
360 207,000 6617.7
365 207,000 6617.7
370 207,800 6619.5
375 208,500 6621.2
380 210,000 6624.5
385 211,200 6627.4
390 211,200 6627.4
395 212,700 6630.8
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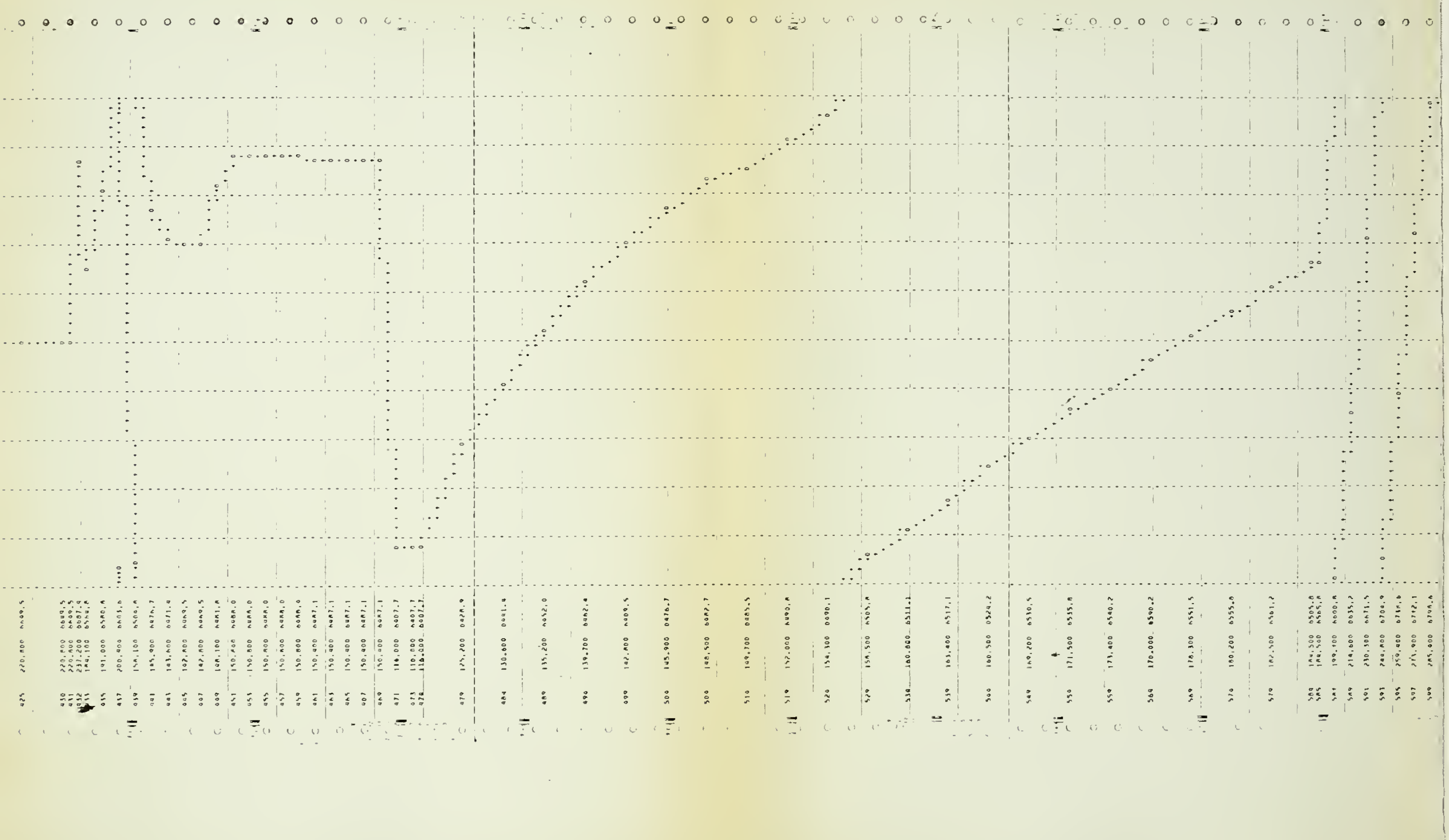


II B-1031

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 5

Date: Nov. 14, 1974 Interval tested: 919-970 ft.

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek above the A Groove.

Golder Associates

SG - 17 D.S.T. - 5

GOLDER ASSOCIATES

PROGRAM - CRRAP

BORE SG 17 DST 06 DATE 18NOV78 CANDDECK C JOHNSTON STEM

03/11/75-01112129

/COMMENT INTERVAL TESTED 967-1017 FT, PARACHUTE CREEK ABOVE THE A GROOVE

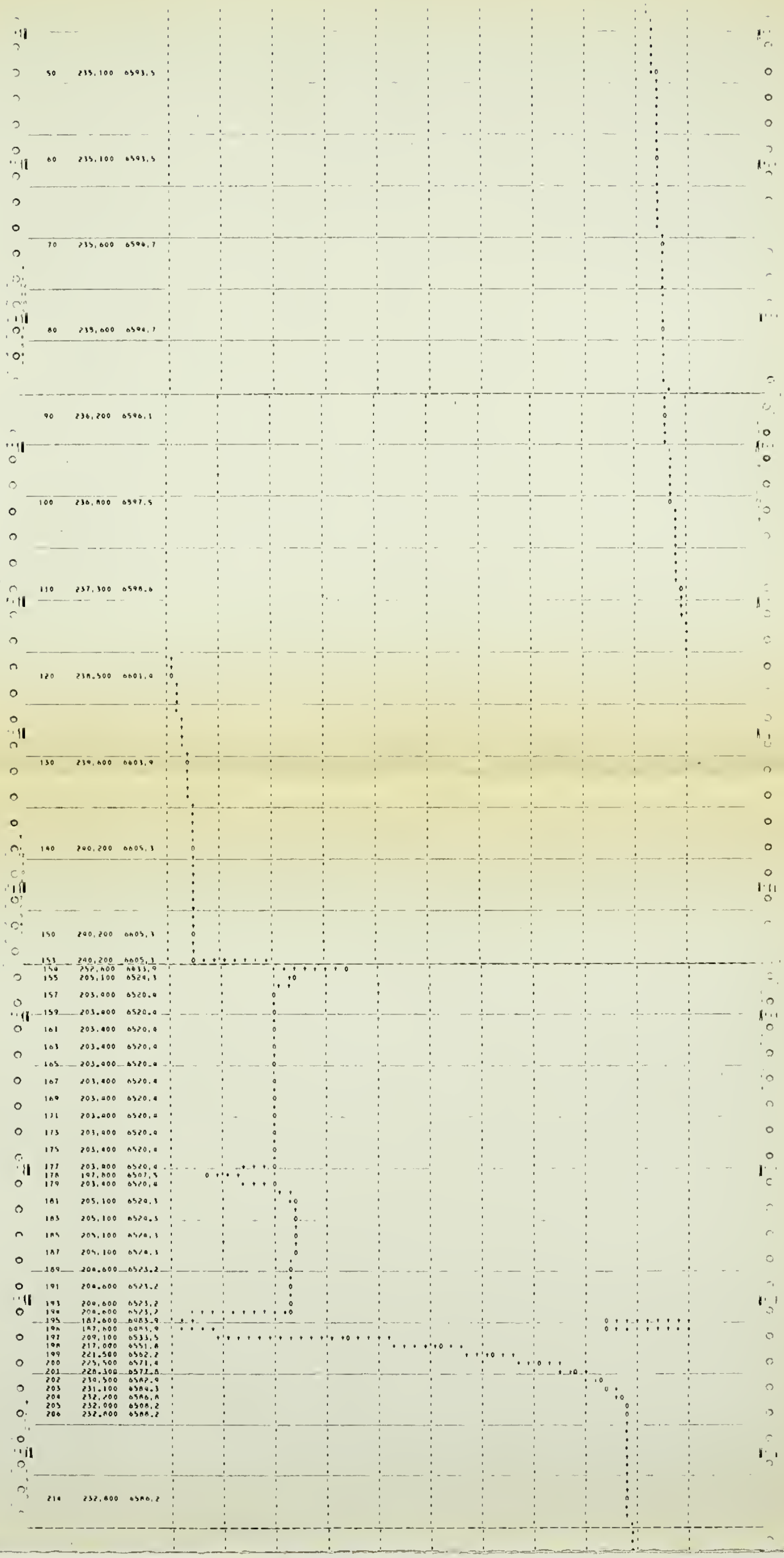
WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	J-805
BOMB RANGE (PSI)		=	2000
POSITION OF BOMB (FEET)		=	985.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	963.00
	MIDDLE	=	967.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1017.00

THIS RECORD CONTAINS 46 CARDS

BORE SG 17 DST 06 DATE 18NOV78 CANDDECK C JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	62.100	6194.3
2	229.400	6560.4
4	230.500	6582.9
6	230.500	6582.9
8	230.500	6582.9
10	230.500	6582.9
12	230.500	6582.9
14	230.500	6582.9
16	230.500	6582.9
18	230.500	6582.9
20	230.500	6582.9
22	230.500	6582.9
24	230.500	6582.9
26	231.100	6584.3
28	231.100	6584.3
30	231.100	6584.3
32	231.700	6585.7
34	231.700	6585.7
35	231.700	6585.7
0	92.600	6240.7
1	131.600	6354.7
2	161.600	6421.9
3	170.900	6459.2
4	189.900	6489.2
5	200.000	6512.5
6	208.500	6532.2
7	218.700	6546.5
8	220.400	6559.6
9	223.800	6567.5
10	226.600	6574.9
11	228.900	6579.2
12	230.000	6581.8
13	231.100	6584.3
14	231.700	6585.7
15	232.200	6586.8
16	232.200	6586.8
17	232.800	6588.2
18	232.800	6588.2
19	233.400	6589.0
20	233.400	6589.6
30	233.400	6590.8
40	234.500	6592.2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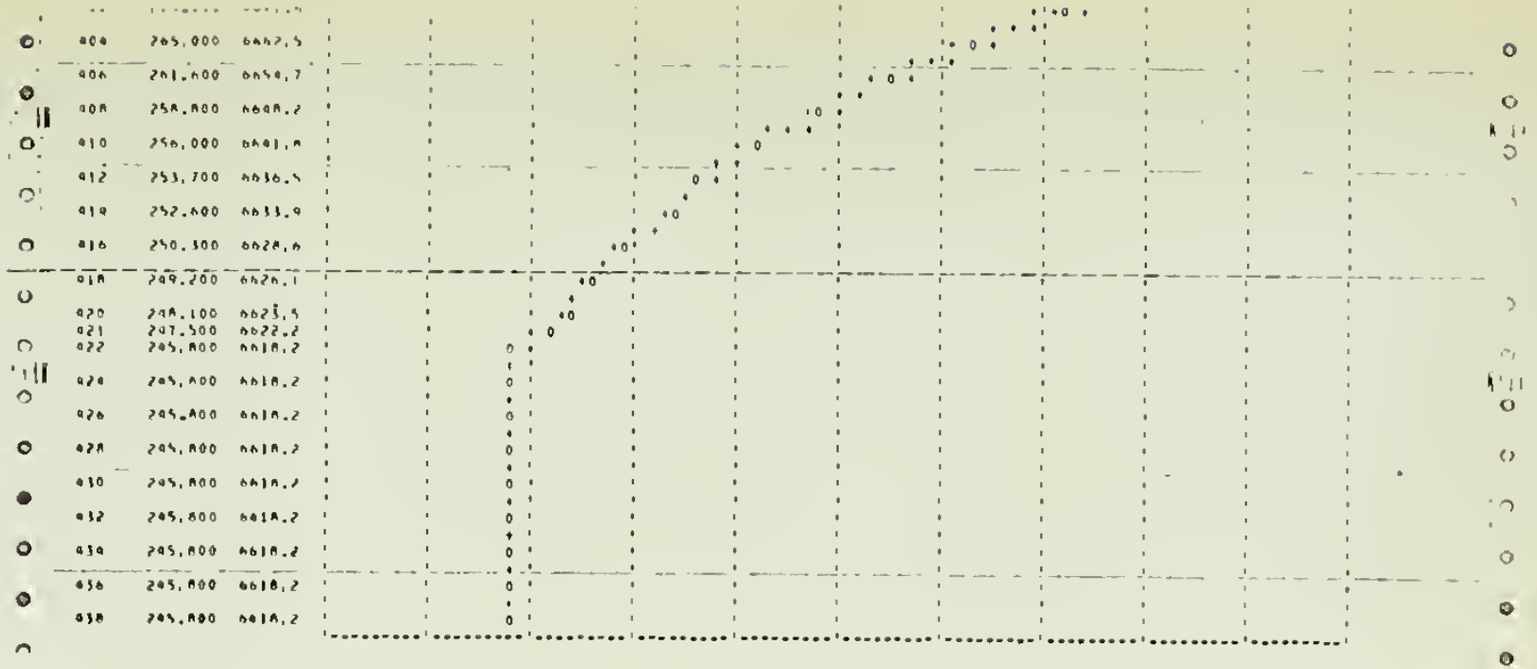
80 235,600 6596,7
90 236,200 6596,1
100 236,800 6597,5
110 237,300 6598,6
120 238,500 6601,0
130 239,600 6603,9
140 240,200 6605,3
150 240,200 6605,3
153 240,200 6605,3
154 252,600 6633,9
155 205,100 6524,3
157 203,400 6520,0
159 203,400 6520,0
161 203,400 6520,0
163 203,400 6520,0
165 203,400 6520,0
167 203,400 6520,0
169 203,400 6520,0
171 203,400 6520,0
173 203,400 6520,0
175 203,400 6520,0
177 203,800 6520,0
178 197,800 6507,5
179 203,400 6520,0
181 205,100 6524,3
183 205,100 6524,3
185 205,100 6524,3
187 205,100 6524,3
189 204,600 6523,2
191 204,600 6523,2
193 204,600 6523,2
194 204,600 6523,2
195 187,600 6483,9
196 187,600 6483,9
197 209,100 6533,5
198 217,000 6551,8
199 221,500 6562,2
200 225,500 6571,4
201 228,300 6577,8
202 230,500 6582,9
203 231,100 6584,3
204 232,200 6586,8
205 232,000 6588,2
206 232,800 6588,2
214 232,800 6586,2

226	233,400	6589,6	
236	233,900	6590,8	
246	233,900	6590,8	
256	233,900	6590,8	
266	233,900	6590,8	
276	233,900	6590,8	
282	233,900	6590,8	
284	240,200	6605,3	
286	242,400	6610,8	
288	243,500	6612,9	
290	244,700	6615,7	
292	244,700	6615,7	
294	245,200	6616,8	
296	245,800	6618,2	
298	245,800	6618,2	
300	245,800	6618,2	
302	243,000	6611,8	
304	242,000	6610,9	
306	241,900	6609,2	
307	241,900	6609,2	
308	244,900	6619,8	
310	261,100	6653,5	
312	270,100	6670,1	
314	278,000	6692,5	
317	285,800	6709,8	
318	291,900	6729,2	
320	305,200	6755,3	
322	309,100	6749,3	
324	291,000	6722,5	
326	278,600	6695,9	
328	269,000	6671,8	
330	261,600	6659,7	
332	256,000	6641,8	
334	252,000	6632,5	
336	249,800	6627,5	
338	279,200	6695,1	
340	311,000	6769,8	
342	330,000	6821,8	
344	353,200	6866,1	
346	356,000	6872,5	
348	375,200	6916,8	
350	392,200	6956,1	
351	398,000	6970,0	
352	393,300	6958,8	
354	368,500	6901,8	
356	368,700	6855,7	
358	352,900	6819,2	
360	339,900	6788,2	
361	333,100	6773,5	
362	339,800	6838,7	
364	373,500	6912,9	
366	399,500	6972,9	
368	405,800	6987,5	
370	407,500	6991,4	
372	412,000	7001,8	
374	413,100	7004,3	
376	413,700	7005,7	
377	413,700	7005,7	
378	402,000	6979,8	
380	382,600	6933,9	
382	363,900	6890,8	
384	347,500	6852,9	
386	338,000	6821,8	
388	321,500	6792,9	
390	310,800	6768,2	
392	300,600	6748,7	
394	292,700	6726,5	
396	285,400	6709,8	
398	279,200	6695,1	
400	273,500	6682,2	
402	269,800	6671,2	



II B-1032

NOTES:

C-b TRACT HYDROLOGY	
Borehole no. 17	Drill stem test no. 6
Dote: Nov. 16, 1974	Intervol tested: 967'-1017'
Pressure gouge: Johnston (lower)	
Formotion tested: Parachute Creek above the A Groove	
SG - 17	D.S.T. - 6

Golder Associates

GOLDER ASSOCIATES

PROGRAM - CHIRP

BORE SG 17 DST 06 DATE 16NOV78 CARDDECK C JOHNSTON STEM

03/11/75-01116118

/COMMENT INTERVAL TESTED 967-1017 FT, PAN(CHUTE CHECK ABOVE THE + GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	J-029
BOMB RANGE (PSI)		=	7A00
POSITION OF BOMB (FEET)		=	940.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	963.00
	MIDDLE	=	967.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1017.00

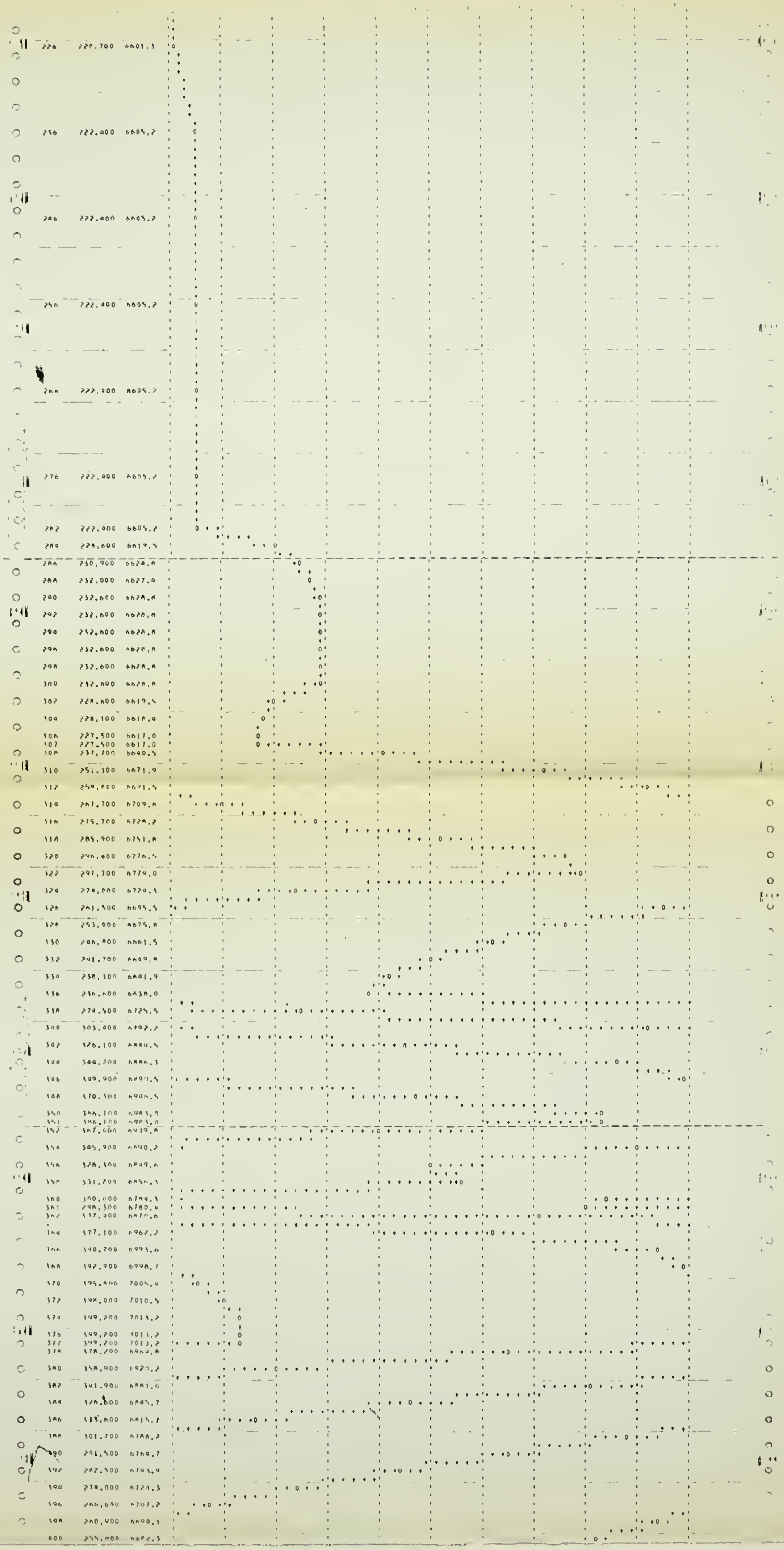
THIS RECORD CONTAINS 40 CARDS

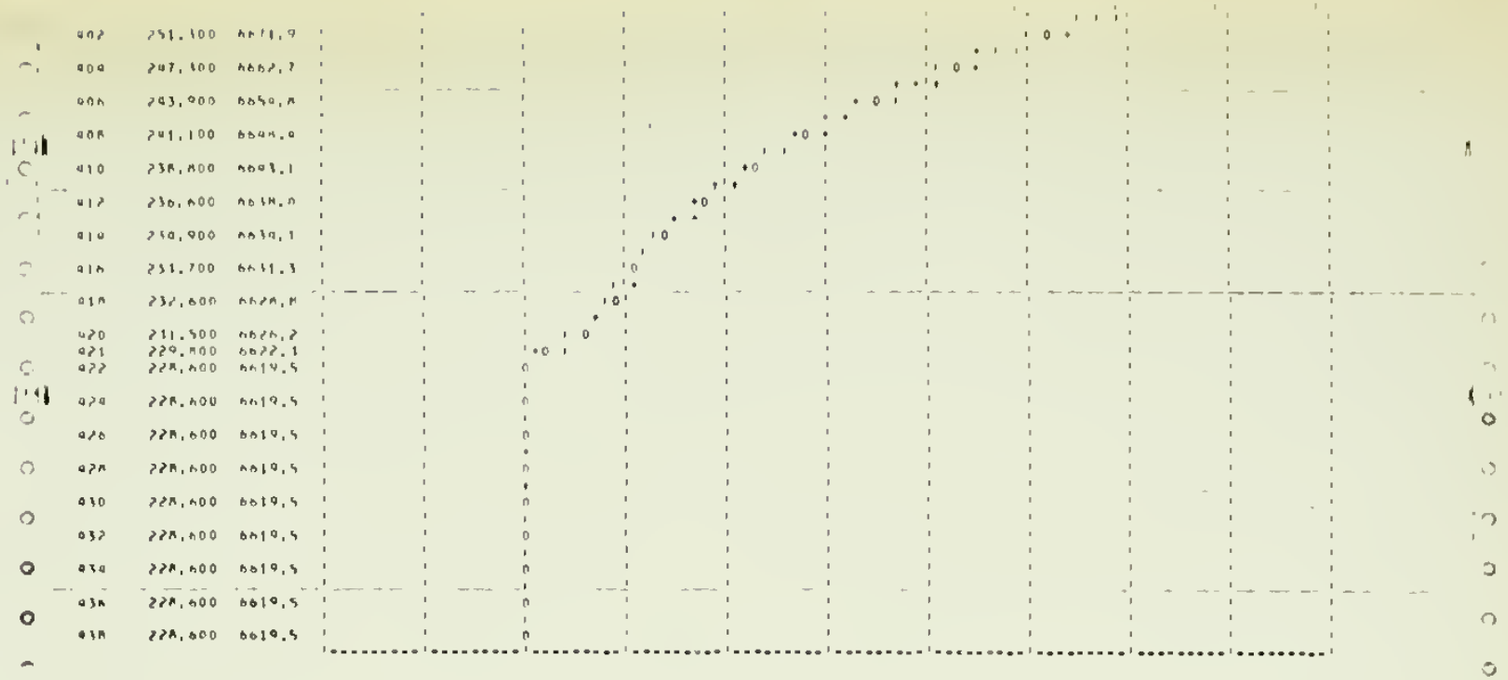
BORE SG 17 DST 06 DATE 10NOV78 CARDDECK C JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	90.500	0194.7	0
2	219.600	0598.8	0
4	221.300	0602.7	0
6	221.300	6602.7	0
8	221.300	6602.7	0
10	221.300	6602.7	0
12	221.300	6602.7	0
14	221.300	6602.7	0
16	221.300	6602.7	0
18	221.300	6602.7	0
20	221.300	6602.7	0
22	221.300	6602.7	0
24	221.300	6602.7	0
26	221.300	6602.7	0
28	221.300	6602.7	0
30	221.300	6602.7	0
32	221.300	6602.7	0
34	221.300	6602.7	0
35	221.300	6602.7	0
0	75.700	6266.7	0
1	118.700	6365.9	0
2	150.500	6439.3	0
3	165.800	6474.6	0
4	179.300	6505.8	0
5	189.500	6529.3	0
6	197.500	6547.8	0
7	208.300	6563.5	0
8	209.400	6575.2	0
9	212.800	6583.1	0
10	215.800	6589.5	0
11	217.300	6593.5	0
12	218.400	6596.0	0
13	219.000	6597.4	0
14	219.400	6598.8	0
15	219.600	6598.8	0
16	220.100	6599.9	0
17	220.100	6599.9	0
18	220.100	6599.9	0
19	220.100	6599.9	0
20	220.700	0601.3	0
30	221.800	6603.8	0
40	222.400	0605.2	0

50	223,000	6606,4	0
60	223,000	6606,4	0
70	223,000	6606,6	0
80	223,000	6606,6	0
90	224,100	6609,2	0
100	224,100	6609,2	0
110	224,100	6609,2	0
120	224,100	6609,2	0
130	224,100	6609,2	0
140	225,200	6611,7	0
150	225,200	6611,7	0
151	225,200	6611,7	0
154	237,700	6640,5	0
155	187,300	6524,2	0
157	186,100	6521,5	0
159	186,100	6521,5	0
161	186,100	6521,5	0
163	186,100	6521,5	0
165	186,100	6521,5	0
167	186,100	6521,5	0
169	186,100	6521,5	0
171	186,100	6521,5	0
173	186,100	6521,5	0
175	186,100	6521,5	0
177	186,100	6521,5	0
178	179,300	6505,8	0
179	182,200	6512,5	0
181	189,500	6529,3	0
183	189,500	6529,3	0
185	189,500	6529,3	0
187	189,500	6529,3	0
189	189,500	6529,3	0
191	189,500	6529,3	0
193	189,500	6529,3	0
194	189,500	6529,3	0
195	187,800	6525,6	0
196	170,300	6485,0	0
197	186,100	6521,5	0
198	201,900	6556,8	0
199	206,500	6568,5	0
200	210,500	6577,8	0
201	213,900	6585,4	0
202	216,200	6590,9	0
203	217,900	6594,8	0
204	219,000	6597,0	0
205	219,600	6598,8	0
206	220,100	6599,9	0
216	220,700	6601,3	0





II B-1033

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 6

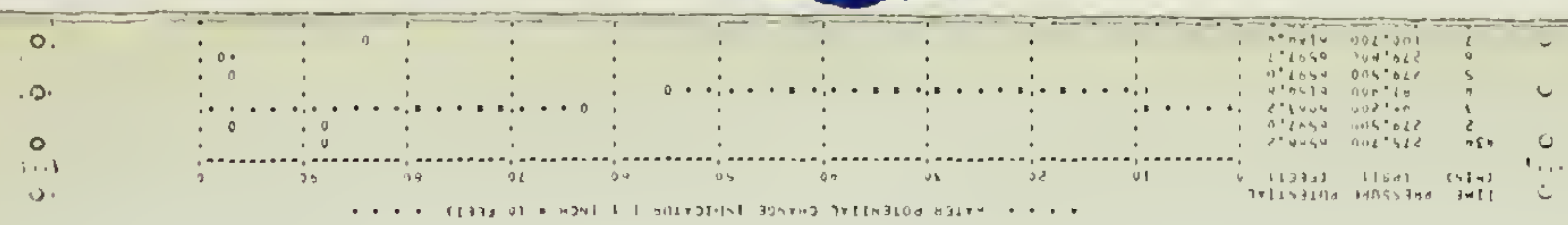
Date: Nov 16, 1974 Interval tested: 967-1017 ft

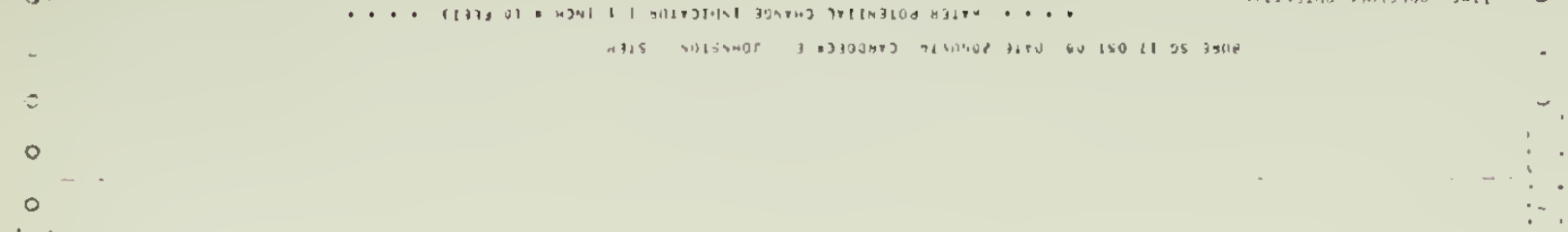
Pressure gauge: Johnston (Upper)

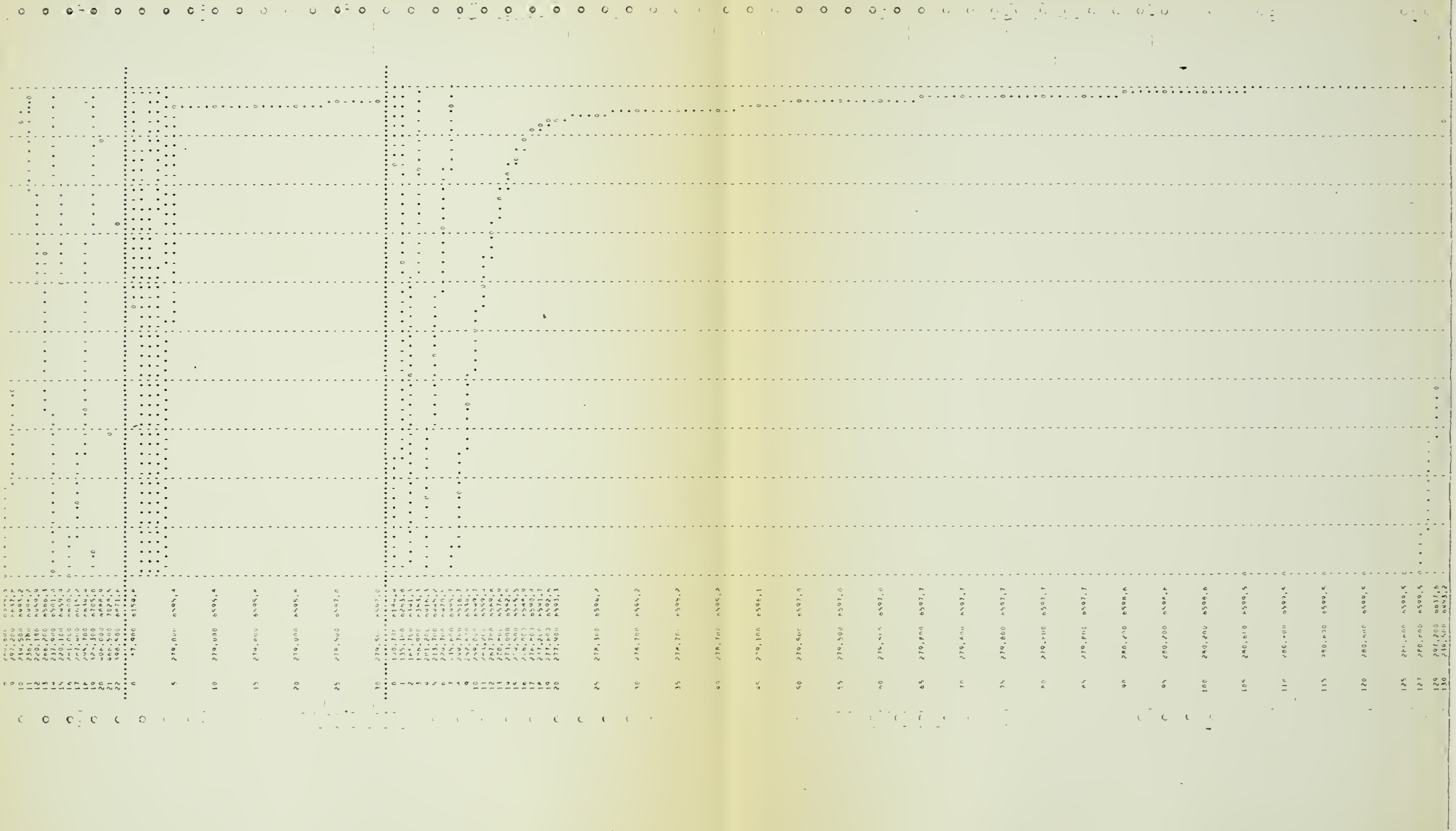
Formation tested: Parachute Creek above the A Groove

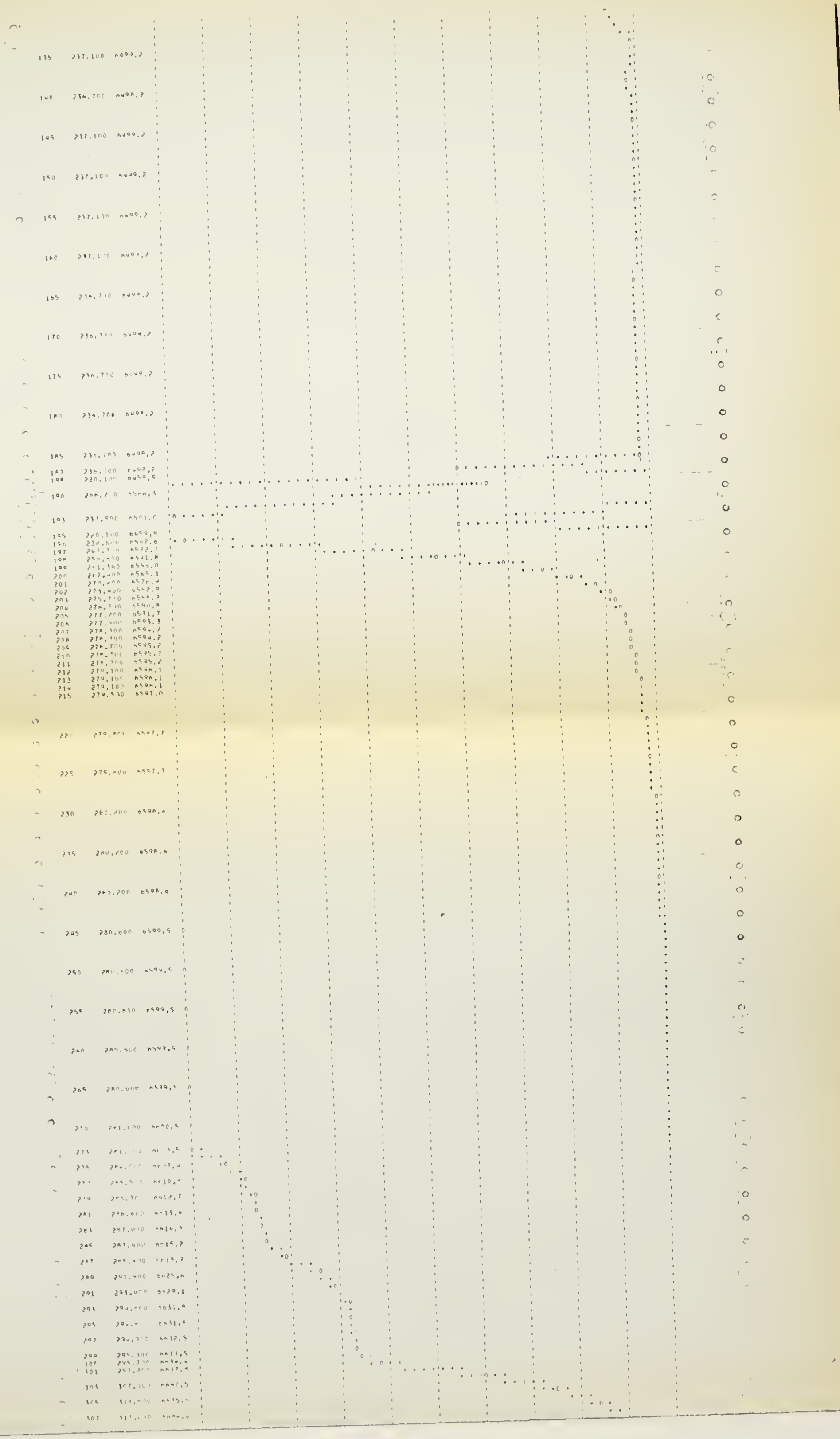
Golder Associates

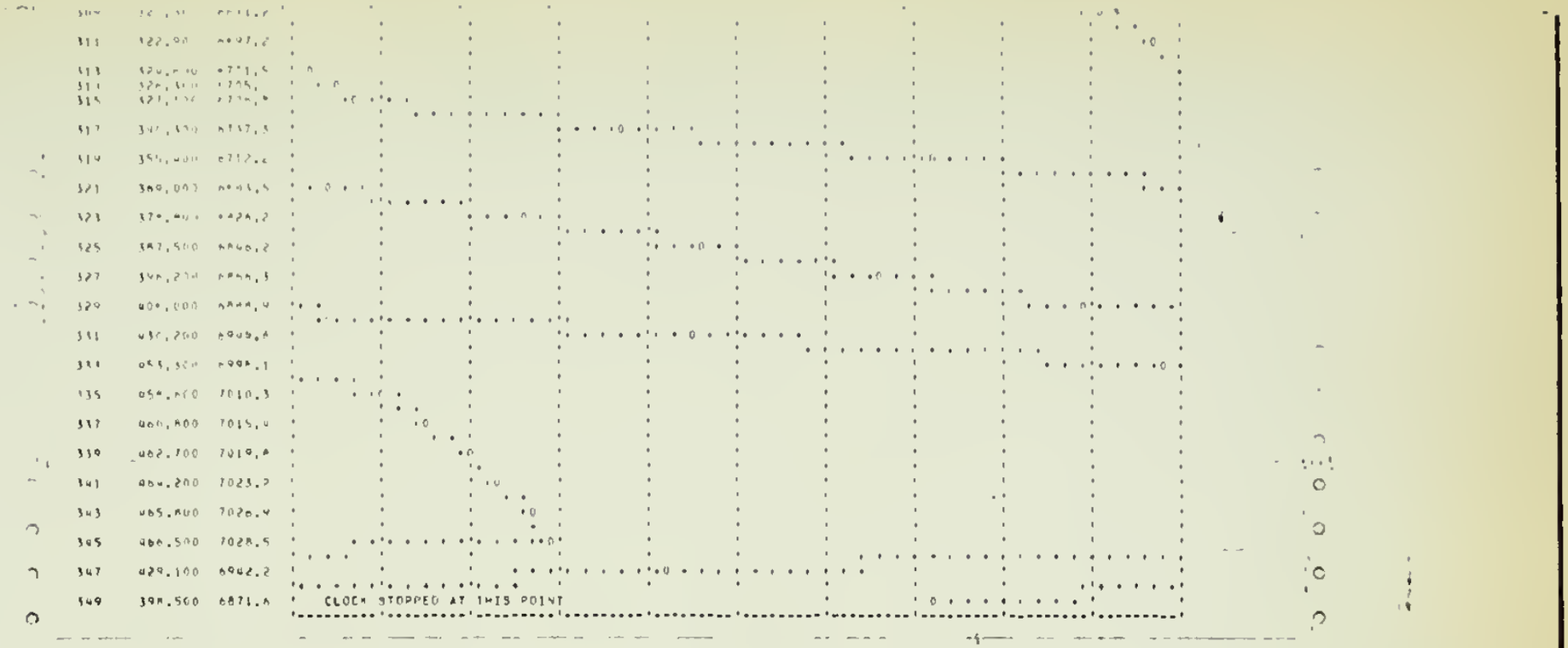
SG - 17 D.S.T. - 6


TIME (MIN) PRESSURE (PSIG) POTENTIAL (FEET)
0 10 20 30 40 50 60 70 80
WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET)


GLOBER ASSOCIATES
/COMMENT INTERVAL TESTED 1086-1114 FT. PARACHUTE CREEK MEMBER THE A GROOVE







NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 8

Date: Nov. 20, 1974 Intervol tested: 1066 - 1116 ft

Pressure gouge: Johnston (Lower)

Formotion tested: Parachute Creek above the A Groove

Golder Associates

SG - 17 D.S.T. - 8

II B-1034

GOLDEN ASSOCIATES

PROGRAM - CHBAP

BOVE SG 17 DST 08 DATE 20NOV74 CARODECP E JOHNSTON STEM

02/12/75-02:20:28

/COMMENT INTERVAL TESTED 1066-1116 FT, PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	45010
BOMB RANGE (PSI)	=	5000
POSITION OF BOMB (FEET)	=	1040.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS (FEET) UPPER	=	1062.00
MIDDLE	=	1066.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	1116.00

THIS RECORD CONTAINS 50 CARDS

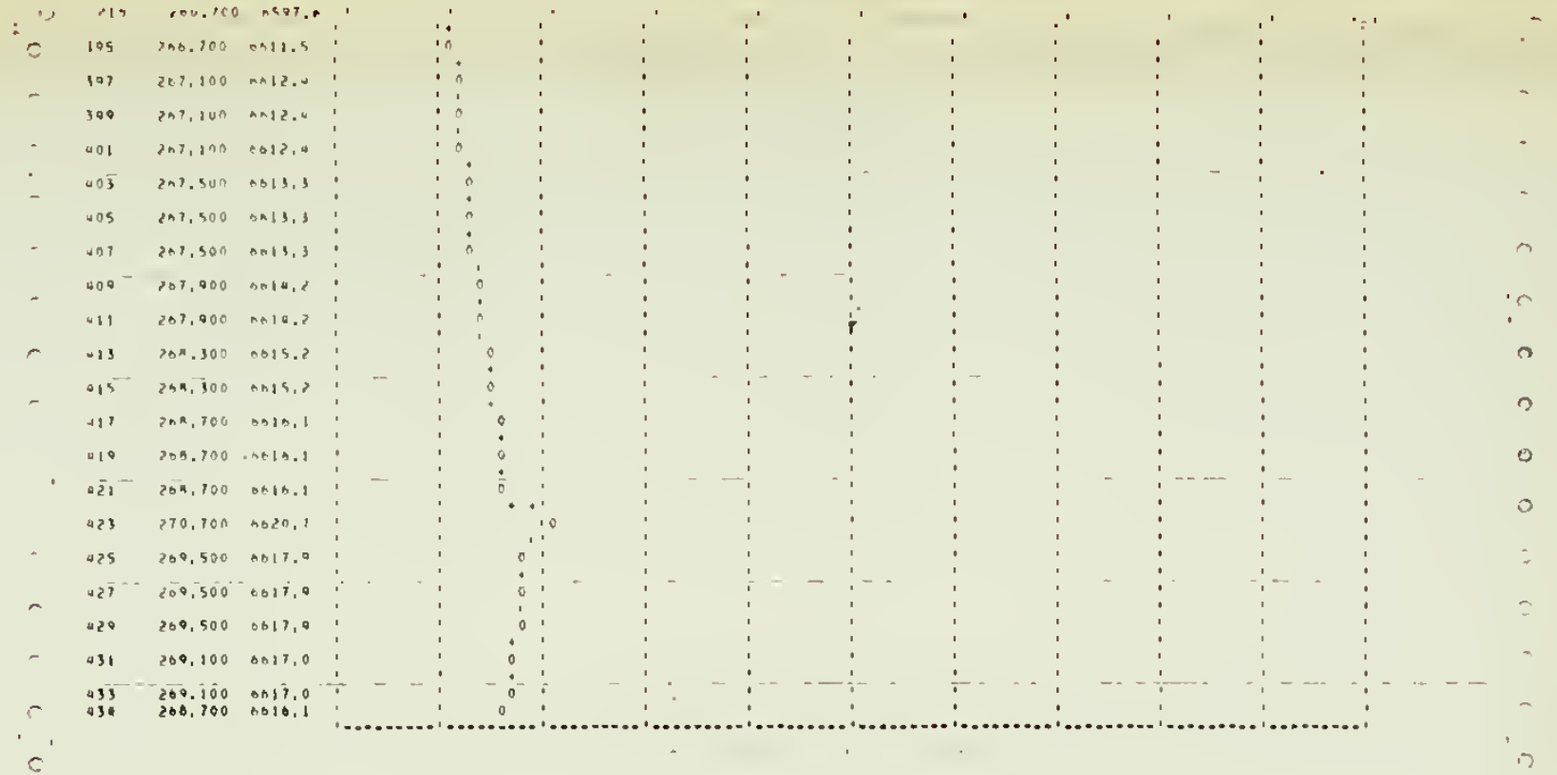
BOVE SG 17 DST 08 DATE 20NOV74 CARODECP E JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	256.700	6588.0
2	260.100	6597.6
3	25.400	6052.6
4	65.800	6197.8
5	261.100	6598.5
6	261.100	6598.5
7	79.800	6180.2
8	262.300	6601.3
9	259.500	6593.8
10	258.300	6590.5
11	258.700	6591.7
12	261.500	6598.1
13	247.900	6560.1
14	259.900	6591.5
15	261.900	6596.9
16	262.100	6602.2
17	269.100	6617.0
18	217.500	6436.6
19	308.400	6707.7
20	387.200	6889.5
21	402.600	7035.5
22	268.100	6616.1
23	268.700	6616.1
24	298.700	6685.3
0	65.800	6197.8
5	260.700	6597.6
10	261.100	6598.5
15	261.100	6598.5
20	261.100	6598.5
25	261.100	6598.5
30	261.100	6598.5
0	79.800	6180.2
1	115.500	6262.5
2	140.300	6329.0
3	165.300	6394.6
4	174.900	6411.2
5	194.100	6448.4
6	208.700	6473.0
7	215.900	6494.2
8	225.100	6515.5
9	233.500	6538.4
10	239.100	6547.8
11	240.700	6560.7
12	244.500	6571.4
13	251.900	6577.3
14	251.900	6581.9
15	255.900	6588.5
16	257.500	6590.2
17	258.300	6592.1
18	259.100	6593.9
19	259.100	6593.9
20	259.500	6594.8
25	260.300	6596.7
30	260.700	6597.6
35	260.700	6591.6

90	260.700	6597.6
95	261.100	6598.5
50	261.500	6599.5
55	261.500	6599.5
60	261.500	6599.5
65	261.500	6599.5
70	261.500	6599.5
75	261.500	6599.5
80	261.900	6600.4
85	261.900	6600.4
90	261.900	6600.4
95	262.700	6602.2
100	262.300	6601.3
105	262.300	6601.3
110	262.700	6602.2
115	262.700	6602.2
120	262.700	6602.2
125	262.300	6601.3
127	262.300	6601.3
129	279.500	6641.8
130	216.300	6495.2
135	218.700	6500.7
140	218.700	6500.7
145	218.700	6500.7
150	218.700	6500.7
155	218.700	6500.7
160	218.700	6500.7
165	218.700	6500.7
170	218.700	6500.7
175	218.700	6500.7
180	218.700	6500.7
185	218.700	6500.7
187	218.700	6500.7
188	201.500	6461.0
190	247.900	6568.1
193	219.900	6503.5
195	201.900	6461.9
196	215.100	6497.8
197	224.300	6518.2
198	215.900	6500.9
199	242.700	6556.1
200	245.700	6565.3
201	251.100	6575.5
202	251.900	6541.9
203	256.300	6587.5
204	256.300	6592.1
205	259.100	6593.9
206	259.900	6595.8
207	259.900	6595.8
208	260.300	6596.7
209	260.700	6597.6
210	260.700	6597.6
211	260.700	6597.6
212	260.700	6597.6
213	260.700	6597.6
214	260.700	6597.6

220	261,100	6598.5
225	261,900	6600,0
230	261,900	6600,0
235	262,300	6601,3
240	262,300	6601,3
245	262,300	6601,3
250	262,300	6601,3
255	262,300	6601,3
260	262,300	6601,3
265	262,700	6602,2
270	262,700	6602,2
273	262,700	6602,2
275	265,100	6607,8
277	267,100	6612,4
279	268,300	6615,2
281	268,700	6616,1
283	268,700	6616,1
285	269,100	6617,0
287	270,300	6619,8
289	273,100	6626,2
291	275,100	6630,8
293	275,900	6632,7
295	276,300	6633,6
297	276,700	6634,5
299	277,100	6635,5
300	277,500	6636,4
301	280,300	6642,9
303	280,100	6643,2
305	280,700	6644,1
307	280,500	6647,2
309	282,400	6693,4
311	284,800	6699,0
313	305,400	6703,1
314	306,400	6707,7
315	309,200	6709,5
317	323,200	6741,8
319	338,000	6776,0
321	351,200	6806,5
323	360,800	6828,6
325	370,400	6850,8
327	379,800	6870,2
329	387,200	6889,5
331	404,800	6933,6
333	414,800	6999,0
335	401,200	7014,2
337	403,200	7018,8
339	405,600	7024,1
341	405,500	7024,1
343	406,000	7025,8
345	409,800	7033,5
347	410,000	6942,2
349	340,000	6882,2
351	359,200	6824,9
353	339,000	6786,8
355	318,400	6730,8
357	302,400	6693,8
359	291,200	6668,0
361	283,100	6649,3
363	277,500	6636,4
365	272,700	6625,1
367	270,000	6619,1
369	268,700	6618,1
371	267,500	6613,1
373	267,100	6612,4
375	266,700	6611,5
377	266,700	6611,5
379	266,700	6611,5
381	266,300	6610,5
383	266,300	6610,5
385	266,300	6610,5
387	266,300	6610,5
389	266,700	6611,5
391	266,700	6611,5
393	266,700	6611,5



II B-1035

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 8

Date: Nov. 20, 1974 Intervol tested: 1066 - 1116 ft.

Pressure gouge: Johnston (Upper)

Formotion tested: Porochute Creek above the A Groove.

Golder Associates

SG - 17 D.S.T. - 8

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE BG 17 D3T 09 DATE 22NOV74 CARDDECK F JOHNSTON STEM

02/17/75-22:51:31

/COMMENT INTERVAL TESTED 1116-1166 FT, PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)	•	6.75
GROUND ELEVATION (FEET)	•	7036.00
BOMB NO.	•	A5009
BOMB RANGE (PSI)	•	1500
POSITION OF BOMB (FEET)	•	1098.00
LOCATION OF BOMB	•	STEM

BOTTOM OF PACKERS (FEET) UPPER = 1111.00
MIDDLE = 1116.00
LOWER = .00
LENGTH OF PACKERS (FEET) = 2.00
BOREHOLE DEPTH (FEET) = 1166.00

THIS RECORD CONTAINS 56 CARDS

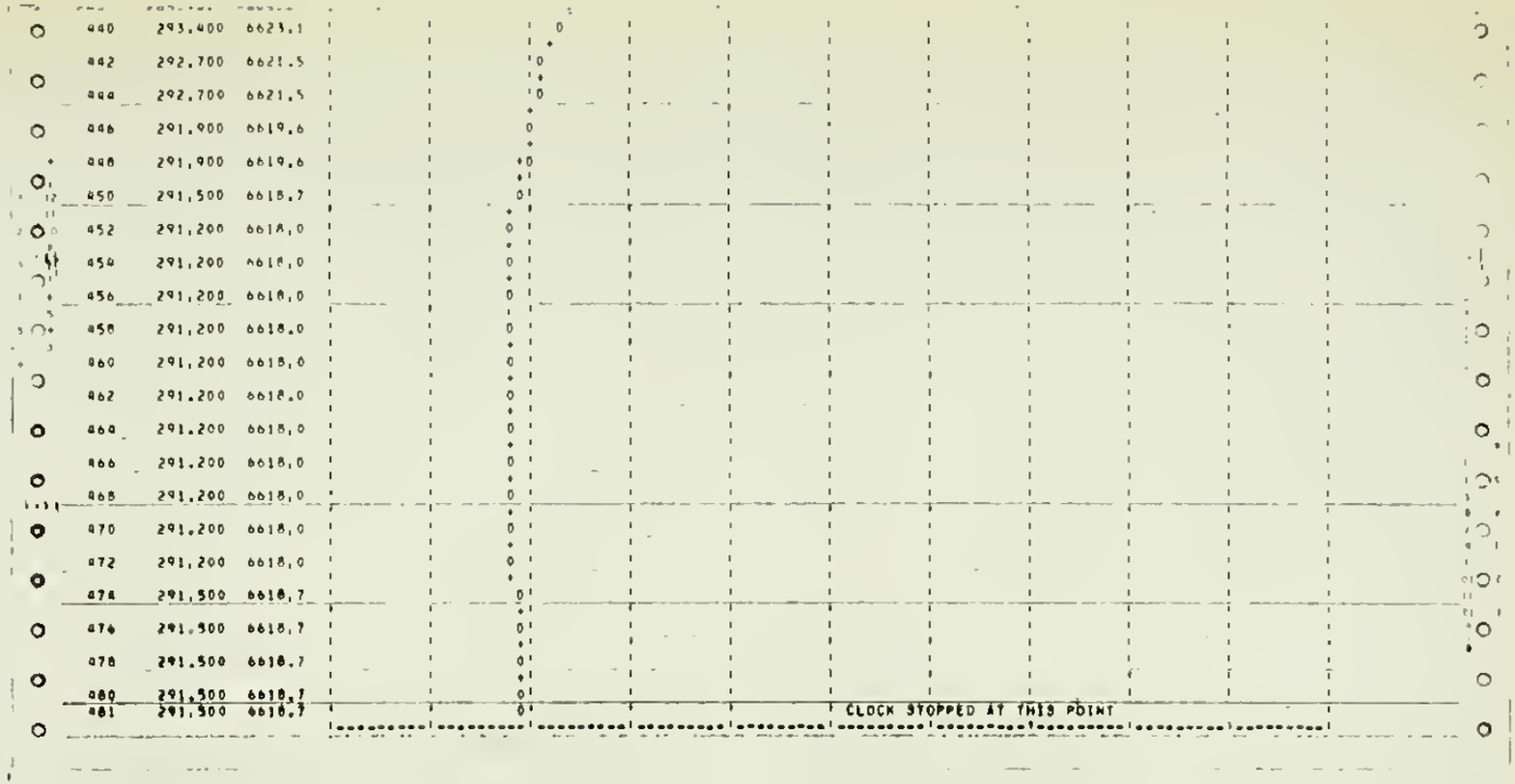
BORE 36 17 037 09 DATE 22NOV74 CARDOECH F JOHNSTON OTEW

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	275.300	6581.3	
2	283.200	6599.5	
3	101.500	6140.2	
4	125.600	6235.8	
5	283.200	6599.5	
6	283.600	6600.5	
7	169.500	6337.2	
8	285.900	6605.8	
9	321.900	6687.7	
10	263.600	6554.3	
11	258.300	6542.1	
12	242.800	6506.3	
13	286.200	6606.5	
14	290.000	6615.2	
15	287.400	6609.2	
16	295.700	6628.4	
17	292.300	6620.5	
18	322.500	6688.2	
19	312.700	6667.8	
20	402.300	6874.4	
21	368.300	6795.9	
22	975.200	7092.6	
23	291.500	6618.7	
0	125.600	6235.8	
1	262.400	6551.5	
2	275.300	6581.3	
3	279.800	6591.7	
4	281.300	6595.2	
5	282.100	6597.0	
6	282.100	6597.0	
7	282.500	6597.9	
8	282.500	6597.9	
9	282.500	6597.9	
10	282.800	6598.6	
15	282.800	6598.6	
20	282.800	6598.6	
25	283.200	6599.5	
30	283.200	6599.5	
0	169.500	6337.2	
1	186.900	6377.3	
2	206.100	6421.6	
3	219.000	6451.4	
4	233.000	6483.7	
5	243.500	6507.9	
6	251.500	6526.4	
7	259.400	6544.6	
8	265.100	6557.8	
9	270.400	6570.6	
10	273.800	6577.8	
11	276.900	6583.8	
12	278.700	6589.2	
13	279.800	6591.7	
14	281.000	6594.5	
15	281.700	6596.1	
16	282.100	6597.0	
17	282.500	6597.9	
18	282.500	6597.9	
19	282.500	6597.9	
20	282.500	6597.9	
21	282.500	6597.0	
22	282.500	6597.9	
23	282.800	6598.6	
24	282.800	6598.6	
25	282.800	6598.6	
30	283.200	6599.5	
35	283.600	6600.5	
40	283.600	6600.5	
45	283.600	6600.5	
50	284.000	6601.0	
55	284.400	6602.3	
60	284.400	6602.3	
65	284.400	6602.3	
70	284.700	6603.0	
75	284.700	6603.0	

80	284,700	6603,0	0
85	284,700	6603,0	0
90	284,700	6603,0	0
95	284,700	6603,0	0
100	285,500	6604,8	0
110	285,500	6604,8	0
120	285,500	6604,8	0
130	285,500	6604,8	0
140	285,500	6604,8	0
148	285,900	6605,8	0
149	321,400	6687,7	
150	289,600	6619,3	
151	263,600	6554,3	
160	259,800	6545,5	
170	259,000	6583,7	
180	259,400	6544,6	
190	259,400	6544,6	
200	258,700	6543,0	
208	256,300	6592,1	
210	282,800	6506,3	
211	259,400	6544,6	
212	267,400	6563,1	
213	272,300	6574,4	
214	276,800	6584,8	
215	279,100	6590,1	
216	279,400	6590,8	
217	280,600	6593,5	
218	282,100	6597,0	
219	282,800	6598,6	
220	283,200	6599,5	0
221	283,400	6600,5	0
222	284,000	6601,4	0
223	284,000	6601,4	0
224	284,400	6602,3	0
225	284,700	6603,0	0
230	285,100	6603,9	0
235	285,100	6603,9	0
240	285,500	6604,8	0
245	285,500	6604,8	0
250	285,900	6605,8	0
255	285,900	6605,8	0

265	285.900	6605.8
270	286.200	6606.5
275	286.200	6606.5
280	286.200	6606.5
285	286.200	6606.5
290	286.200	6606.5
295	286.200	6606.5
300	286.200	6606.5
302	286.200	6606.5
304	288.500	6611.8
306	288.900	6612.7
308	289.300	6613.6
310	289.600	6614.3
312	290.000	6615.2
314	290.000	6615.2
316	290.000	6615.2
318	288.500	6611.8
320	287.800	6610.2
322	287.900	6609.2
324	287.400	6609.2
326	290.800	6617.1
328	292.700	6621.5
330	293.400	6623.1
332	294.600	6625.8
334	295.300	6627.5
336	295.700	6628.4
337	295.700	6628.4
338	295.300	6627.5
339	292.300	6620.5
340	293.400	6623.1
342	302.900	6695.0
344	308.500	6657.9
346	312.300	6666.7
348	315.300	6673.6
350	318.000	6679.8
352	320.600	6685.8
354	322.500	6690.2
355	312.700	6667.6
356	313.800	6670.2
358	330.800	6709.4
360	346.700	6746.1
362	359.900	6776.5
364	370.900	6801.9
366	381.900	6827.3
368	392.100	6850.8
370	402.300	6874.4
371	402.300	6874.4
372	386.000	6836.8
374	368.300	6795.9
376	446.500	6976.9
378	459.300	7005.9
380	465.800	7020.9
382	469.200	7028.8
384	472.200	7035.7
386	473.300	7038.2
388	474.800	7041.7
389	475.200	7042.6
390	463.500	7015.6
392	443.100	6968.5
394	425.700	6928.4
396	410.200	6892.6
398	398.600	6861.2
400	388.100	6832.4
402	373.200	6807.2
404	363.300	6784.4
406	355.000	6765.2
408	346.700	6746.1
410	339.200	6728.8
412	332.700	6713.8
414	327.000	6700.6
416	322.100	6689.3
418	317.600	6678.9
420	313.500	6669.5
422	310.400	6662.3
424	307.000	6654.5
426	309.400	6660.5
428	302.100	6643.2
430	300.200	6638.8
432	298.300	6634.4
434	296.800	6630.9
436	295.700	6628.4
438	294.600	6625.8



II B-1036

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 9

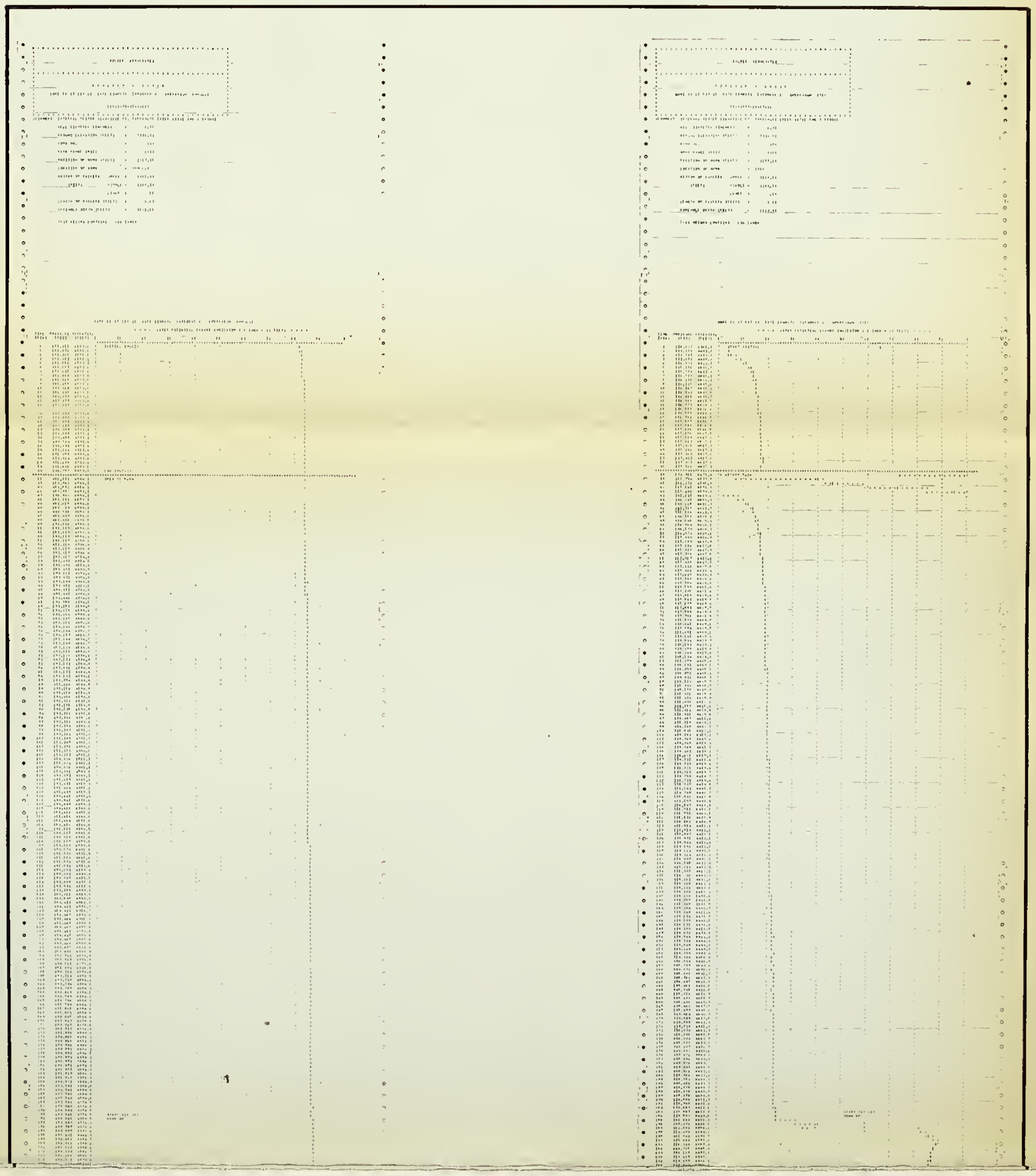
Date: Nov. 22, 1974 Interval tested: 1116-1166 ft.

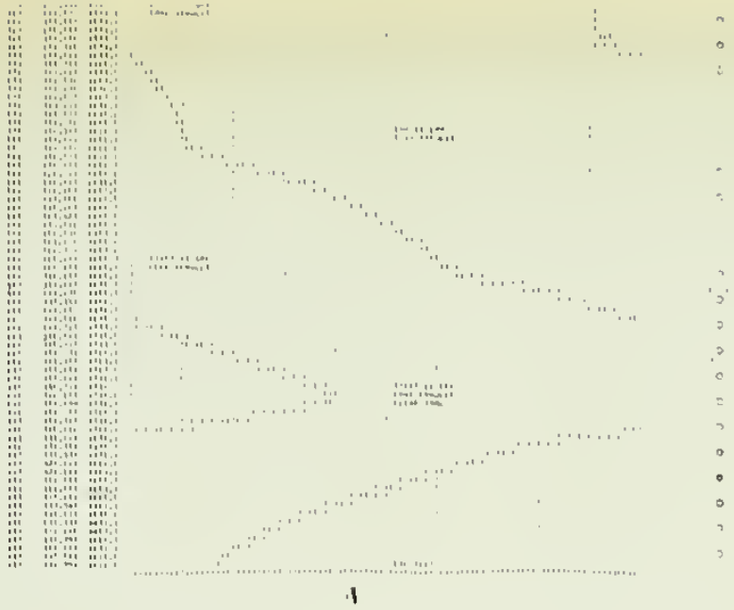
Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek above the A Groove.

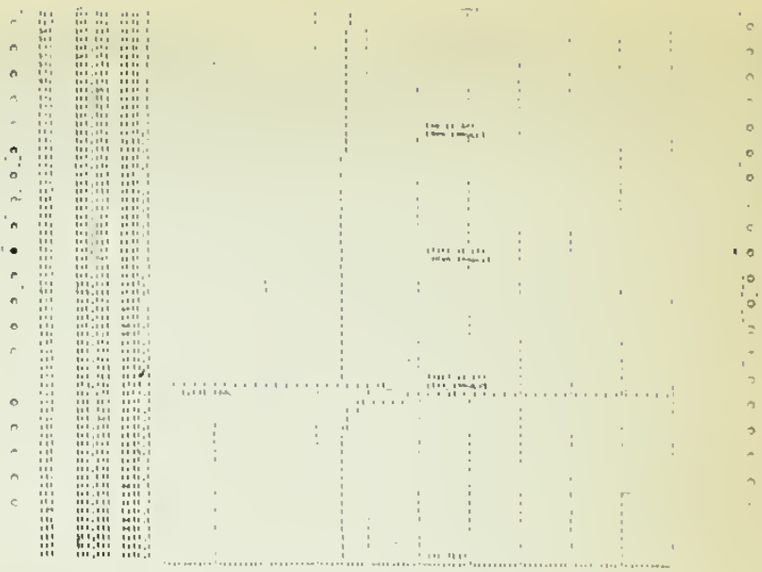
Golder Associates

SG - 17 D.S.T. - 9





ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1037

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

Borehole no 17 Drill stem test no 10

Dote: Nov. 23, 1974 Interval tested 1164-1212 ft.

Pressure gouges: Sperry Sun

Formotion tested Parachute Creek above the A Groove

SG- 17 D.S.T.- 10

GOLDER ASSOCIATES

PROGRAM - CREAP

BORE 86 17 DST 11 DATE 25NOV78 CARDDECK M JOHNSTON SIEM

02/11/75-21157E86

/COMMENT INTERVAL TESTED 1200-1224 FT, PARACHUTE CREEK A GROOVE

WELL DIAMETER (INCHES)		•	6.75
GROUND ELEVATION (FEET)		•	7038.00
BOMB NO.		•	A5010
BOMB RANGE (PSI)		•	1600
POSITION OF BOMB (FEET)		•	1205.00
LOCATION OF BOMB		•	STEM
BOTTOM OF PACKERS (FEET)	UPPER	•	1195.00
	MIDDLE	•	1200.00
	LOWER	•	.00
LENGTH OF PACKERS (FEET)		•	2.00
BOREHOLE DEPTH (FEET)		•	1224.00

THIS RECORD CONTAINS 60 CARDS

BORE 86 17 DST 11 DATE 25NOV78 CARDDECK M JOHNSTON SIEM

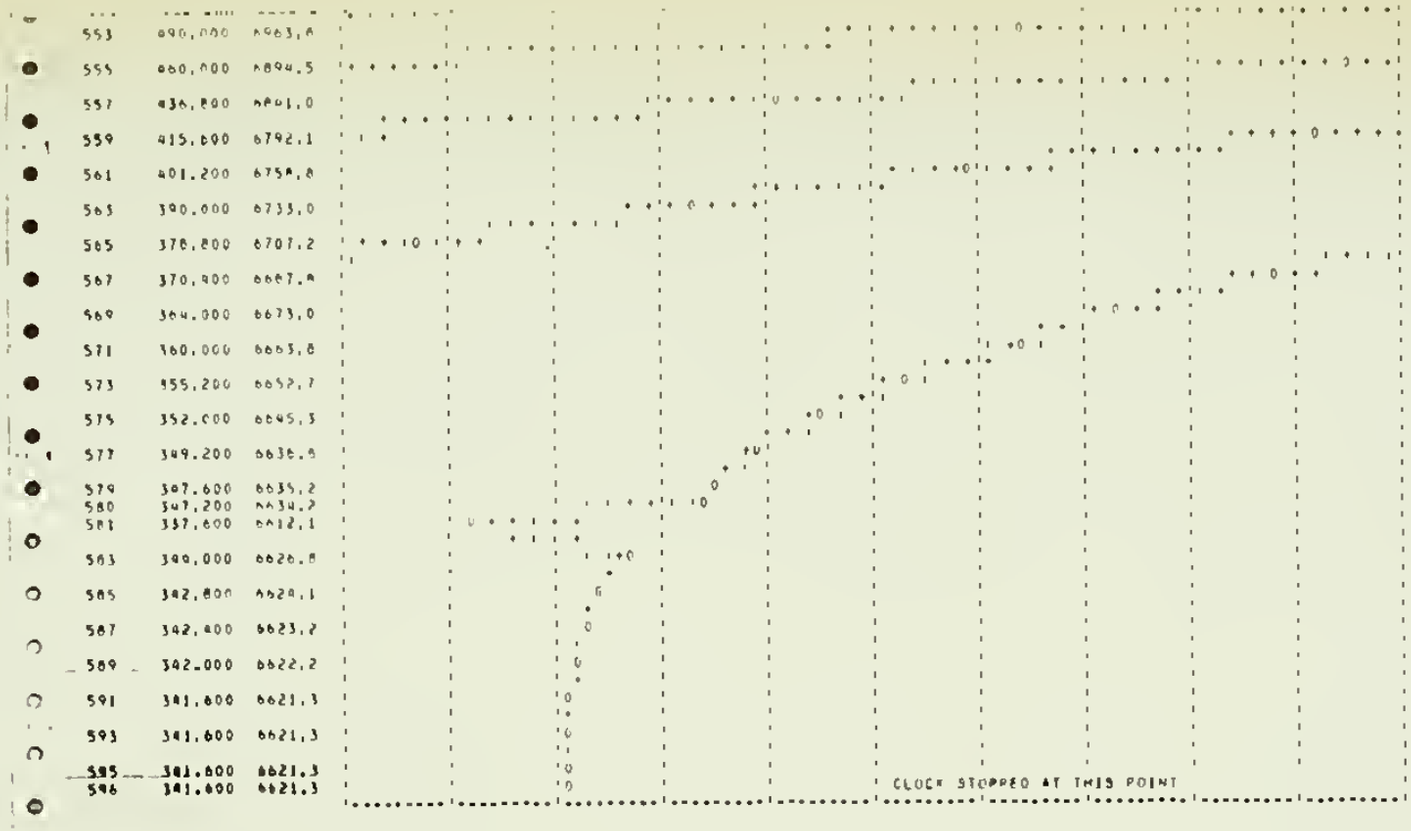
* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
596	100.700	6065.8	
1	328.800	6582.5	
2	327.200	6588.1	
3	328.800	6591.8	
4	330.000	6594.5	
5	330.800	6596.4	
6	331.600	6598.2	
7	332.000	6599.2	
8	332.000	6599.2	
9	332.400	6600.1	
10	332.400	6600.1	
15	332.400	6600.1	
20	332.800	6601.0	
25	332.800	6601.0	
29	332.800	6601.0	
0	121.100	6126.3	
1	192.900	6289.7	
2	213.900	6326.6	
3	230.700	6365.4	
4	240.300	6387.5	
5	256.700	6425.4	
6	264.300	6442.9	
7	274.700	6466.9	
8	281.100	6481.7	
9	288.700	6499.2	
10	293.900	6511.2	
11	298.300	6521.4	

12	306.000	6534.5	
13	308.000	6543.8	
14	312.000	6553.0	
15	314.800	6559.5	
16	318.400	6567.8	
17	320.000	6571.5	
18	322.000	6576.1	
19	323.600	6579.8	
20	324.800	6582.5	
21	326.000	6585.3	
22	327.200	6588.1	
23	328.400	6590.8	
24	329.200	6592.7	
25	329.600	6593.6	
26	330.000	6594.5	
27	330.400	6595.5	
28	330.800	6596.4	
29	331.200	6597.3	
30	331.600	6598.2	
31	331.600	6598.2	
32	332.000	6599.2	
33	332.000	6599.2	
34	332.400	6600.1	
35	332.900	6600.1	
40	332.800	6601.0	
45	333.200	6601.9	
50	333.200	6601.9	
55	333.600	6602.8	
60	333.600	6602.8	
65	333.600	6602.8	
70	333.600	6602.8	
75	333.600	6602.8	
80	334.000	6603.8	
85	334.000	6603.8	
90	334.000	6603.8	
95	334.000	6603.8	
100	334.000	6603.8	
110	334.000	6603.8	
120	334.400	6604.7	
130	334.400	6604.7	
140	334.800	6605.6	
150	335.200	6606.5	
160	335.600	6607.5	
170	335.600	6607.5	
176	335.600	6607.5	
178	365.600	6676.7	
180	292.700	6508.5	
181	292.000	6506.8	
190	292.700	6508.5	

200	292,000	6506,8
210	291,500	6505,7
220	291,500	6505,7
230	291,500	6505,7
237	291,500	6505,7
238	282,700	6439,2
239	288,700	6453,1
240	294,700	6490,0
241	299,000	6511,5
242	298,300	6521,4
243	303,600	6533,6
244	310,400	6549,3
245	315,200	6560,4
246	317,200	6565,0
247	320,600	6573,3
248	322,800	6577,0
249	325,200	6583,5
250	324,200	6581,2
251	328,400	6590,8
252	329,200	6592,7
253	330,000	6594,5
254	330,800	6596,0
255	331,200	6597,3
256	332,000	6599,2
257	332,000	6599,2
258	332,400	6600,1
259	332,800	6601,0
260	333,200	6601,9
261	333,200	6601,9
262	333,600	6602,8
263	333,600	6602,8
268	334,000	6603,8
273	334,900	6604,7
278	335,200	6606,5
283	335,200	6606,5
288	335,600	6607,5
293	355,600	6653,6
298	335,600	6607,5
303	335,600	6607,5
308	335,600	6607,5
313	335,600	6607,5
318	336,000	6608,0
323	336,000	6608,0
328	336,000	6608,0
333	336,000	6608,0
338	336,000	6608,0
343	336,000	6608,0
348	336,000	6608,0
353	336,000	6608,0
358	336,000	6608,0
359	336,000	6608,0
361	336,400	6609,3
363	336,800	6610,2
365	337,200	6611,2
367	337,600	6612,1
369	338,000	6613,0
371	338,400	6613,9

	373	338.600	6614.8
●	375	339.200	6615.8
	377	339.200	6615.8
●	379	339.200	6615.8
	381	339.600	6616.7
●	383	339.600	6616.7
	385	339.600	6616.7
●	387	340.000	6617.6
	389	340.000	6617.6
o	391	340.400	6618.5
	393	340.800	6619.5
o	395	341.600	6621.3
	397	342.000	6623.2
o	399	342.800	6624.1
	401	343.200	6625.0
●	403	344.000	6626.8
	405	344.400	6627.8
●	407	344.800	6628.7
	409	345.100	6629.4
●	411	345.600	6630.5
	413	346.000	6631.5
●	415	346.400	6632.4
	417	346.800	6633.3
●	419	346.800	6633.3
	421	347.200	6634.2
o	423	347.600	6635.2
	425	347.600	6635.2
o	427	348.000	6636.1
●	429	348.800	6637.9
	431	349.200	6638.8
o	433	349.200	6638.8
●	435	349.200	6638.8
	437	348.800	6637.9
●	439	347.600	6635.2
●	441	346.400	6632.4
	443	345.200	6629.6
●	445	344.400	6627.8
●	447	343.600	6625.9
	449	342.800	6624.1
●	451	342.400	6623.2
	453	342.000	6622.2
o	455	341.600	6621.3
	457	341.200	6620.4
o	459	340.800	6619.5
	461	340.800	6619.5
o	463	340.800	6619.5
	465	340.400	6618.5
o	467	340.400	6618.5
	469	340.400	6618.5
o	471	340.000	6617.6
	473	340.000	6617.6
o	475	340.000	6617.6
	477	340.000	6617.6
	479	340.000	6617.6
	480	340.000	6617.6
	481	340.400	6618.5
	483	342.000	6622.2
o	485	342.800	6624.1
	487	343.600	6625.9
o	489	344.000	6626.8
	491	344.400	6627.8
o	493	344.400	6627.8
	495	347.200	6634.2
o	497	349.200	6638.8
	499	350.800	6642.5
●	501	351.600	6644.4
	503	352.400	6646.2
●	505	352.800	6647.2
●	507	353.200	6648.1
	508	353.200	6648.1
	509	358.400	6660.1
●	511	365.200	6675.8
●	513	368.800	6684.1
●	515	372.000	6691.5
●	517	374.400	6697.0
●	519	376.400	6701.6
●	521	378.000	6705.3
	522	378.400	6706.2
	523	384.400	6720.1
o	525	397.200	6749.6
o	527	406.800	6771.8
	529	415.200	6791.2
o	531	422.800	6808.7
●	533	428.800	6822.5
	535	434.400	6835.5
o	537	439.200	6846.5
	539	490.800	6965.6
●	541	504.900	6998.2
●	543	510.100	7010.2
●	545	513.300	7017.5
	547	514.900	7021.2
●	549	516.500	7024.9
	551	518.900	7025.8



II B-1038

NOTES:

C-b TRACT HYDROLOGY

Borehole no. *17* Drill stem test no. *II*

Date: *Nov. 25, 1974* Interval tested: *1200 - 1224 ft*

Pressure gauge: *Johnston (Lower)*

Formation tested: *Parachute Creek A Groove*

Golder Associates

SG - *17* D.S.T. - *II*

GOLDER ASSOCIATES

P R O G R A M • C R E A P

BORE 3G 17 DST 11 DATE 25NOV79 CARDDECK H JOHNSTON STEM

02/11/75-21157121

/COMMENT INTERVAL TESTED 1200-1224 FT, PARACHUTE CREEK A GROOVE

•ELL DIAMETER (INCHES)		•	6.75
GROUND ELEVATION (FEET)		•	7036.00
BOMB NO.		•	A5004
BOMB RANGE (PSI)		•	1500
POSITION OF BOMB (FEET)		•	1179.00
LOCATION OF BOMB		•	STEM
BOTTOM OF PACKERS (FEET)	UPPER	•	1185.00
	MIDDLE	•	1200.00
	LOWER	•	.00
LENGTH OF PACKERS (FEET)		•	2.00
BOREHOLE DEPTH (FEET)		•	1224.00

THIS RECORD CONTAINS 60 CARDS

THE INTERPRETATION OF MEANINGLESS INPUT HAS ATTEMPTED.
THE FOLLOWING RECORD IS ERRONEOUS OR DOES NOT CORRESPOND TO FORMAT SPECIFICATIONS:
17 149, 342.6 150, 353.9 152, 358.8 154, 364.8 156, 369.1 17 158, 365.6 160, 367.5 162, 367.9
I/O CALLED AT SEQUENCE NUMBER 000130 OF CNVRIA

BORE 3G 17 DST 11 DATE 25NOV79 CARDDECK H JOHNSTON STEM

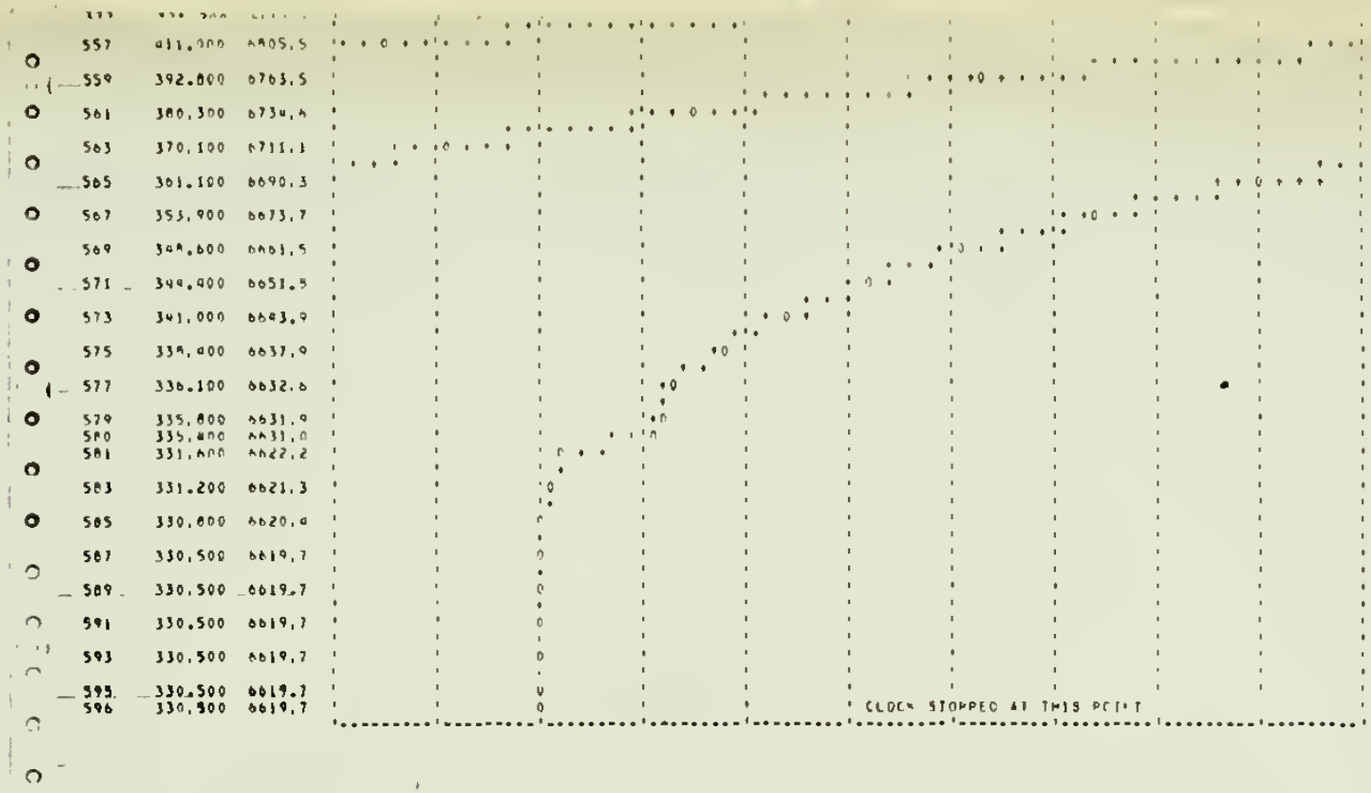
• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	63.700	6050.2
1	308.900	6569.8
2	313.500	6580.5
3	315.700	6585.5
4	318.000	6590.8
5	319.100	6593.4
6	319.800	6595.2
7	320.600	6596.8
8	321.200	6597.8
9	321.400	6598.7
10	321.500	6599.4
15	322.100	••••.3
20	322.500	••••.2
25	322.500	••••.2
29	322.500	••••.2
0	199.401	••••.5
1	348.906	••••.8
2	349.900	••••.7
3	349.400	••••.6
4	349.800	••••.9
5	321.200	••••.5
6	253.100	••••.7
7	244.300	••••.2
8	195.300	••••.2
9	193.100	••••.3
10	212.700	••••.1
15	279.100	••••.2
20	310.300	••••.3
25	314.700	••••.3
30	315.100	••••.3

40	322.100	6600.5	0
45	322.500	6601.2	0
50	322.900	6602.2	0
55	322.900	6602.2	0
60	323.300	6603.1	0
65	323.300	6603.1	0
70	323.700	6604.0	0
75	323.700	6604.0	0
80	323.700	6604.0	0
85	323.700	6604.0	0
90	323.700	6604.0	0
95	323.700	6604.0	0
100	323.700	6604.0	0
110	323.700	6604.0	0
120	324.000	6604.7	0
130	324.000	6604.7	0
140	324.000	6604.7	0
150	324.800	6606.5	0
160	324.800	6606.5	0
170	324.800	6606.5	0
176	324.800	6606.5	0
178	365.500	6700.5	0
180	351.600	6668.4	0
181	279.400	6501.8	0
190	281.700	6507.1	0

200	280,600	6504.5	
210	280,600	6504.5	
220	280,200	6503.6	
230	280,200	6503.6	
237	280,200	6503.6	
238	280,600	6504.0	
239	282,100	6508.3	
240	283,800	6512.8	
241	282,100	6508.0	
242	280,600	6504.3	
243	285,700	6518.4	
244	288,700	6526.7	
245	302,500	6555.1	
246	306,700	6564.8	
247	308,900	6569.8	
248	311,600	6578.1	
249	313,100	6579.5	
250	315,000	6583.0	
251	316,500	6587.4	
252	318,600	6590.8	
253	319,100	6593.4	
258	320,300	6596.2	
255	321,000	6597.8	
256	321,400	6598.7	
257	321,800	6599.8	
258	322,100	6600.1	
259	322,500	6601.2	
260	322,900	6602.2	
261	322,900	6602.2	
262	322,900	6602.2	
263	323,300	6603.1	
268	324,000	6604.7	
273	324,400	6605.6	
278	324,400	6604.5	
283	324,800	6606.5	
288	324,800	6606.5	
293	324,800	6606.5	
298	324,800	6606.5	
303	324,800	6606.5	
308	324,800	6606.5	
313	324,800	6606.5	
318	325,200	6607.5	
323	325,200	6607.5	
328	325,200	6607.5	
333	325,200	6607.5	
338	325,200	6607.5	
343	325,200	6607.5	
348	325,200	6607.5	
353	325,200	6607.5	
358	325,200	6607.5	
359	325,200	6607.5	
361	325,900	6609.1	
363	326,700	6610.9	
365	327,000	6611.6	
367	327,000	6611.6	
369	327,400	6612.5	
371	327,800	6613.5	
373	327,800	6613.5	
375	328,200	6614.4	

377	328.200	6619.4	
379	328.200	6619.4	
381	328.600	6615.3	
383	328.600	6615.3	
385	328.600	6615.3	
387	329.300	6616.9	
389	329.700	6617.8	
391	330.100	6618.8	
393	330.800	6620.4	
395	331.600	6622.2	
397	332.000	6623.2	
399	332.700	6624.8	
401	333.100	6625.7	
403	333.500	6626.6	
405	333.900	6627.5	
407	334.600	6629.2	
409	335.000	6630.1	
411	335.400	6631.0	
413	335.800	6631.9	
415	336.100	6632.6	
417	336.100	6632.6	
419	336.500	6633.5	
421	336.500	6633.5	
423	336.900	6634.5	
425	337.300	6635.4	
427	337.600	6636.1	
429	338.000	6637.0	
431	338.400	6637.9	
433	338.400	6637.9	
435	338.400	6637.9	
437	338.100	6632.6	
439	335.400	6631.0	
441	334.200	6629.2	
443	333.500	6626.6	
445	332.400	6624.1	
447	332.000	6623.2	
449	331.200	6621.3	
451	330.800	6620.4	
453	330.500	6619.7	
455	330.100	6618.8	
457	330.100	6618.8	
459	329.700	6617.8	
461	329.700	6617.8	
463	329.300	6616.9	
465	329.300	6616.9	
467	329.000	6616.2	
469	329.000	6616.2	
471	329.000	6616.2	
472	329.000	6616.2	
475	329.000	6616.2	
477	329.000	6616.2	
479	329.000	6616.2	
480	329.000	6616.2	
481	331.200	6621.3	
483	332.400	6624.1	
485	332.700	6624.8	
487	333.100	6625.7	
489	333.500	6626.6	
491	333.500	6626.6	
493	336.500	6633.5	
495	338.400	6637.9	
497	339.900	6641.4	
499	340.700	6643.2	
501	341.400	6644.8	
503	341.800	6645.8	
505	342.200	6646.7	
507	342.200	6646.7	
508	342.600	6647.6	
509	353.900	6673.7	
511	358.400	6684.1	
515	364.100	6697.2	
517	365.600	6700.7	
519	367.500	6705.1	
521	367.900	6706.0	
522	368.300	6706.9	
523	387.500	6751.2	
525	397.400	6774.1	
527	404.400	6790.2	
529	414.000	6812.4	
531	420.000	6826.2	
533	425.700	6839.4	
535	430.200	6849.8	
537	430.600	6850.7	
539	495.600	7000.7	
541	502.000	7015.5	
543	505.400	7023.3	
545	507.300	7027.7	
547	508.500	7030.5	
549	509.200	7032.1	
551	509.600	7033.0	
553	455.200	6907.5	
555	430.200	6849.8	



II B-1039

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 11

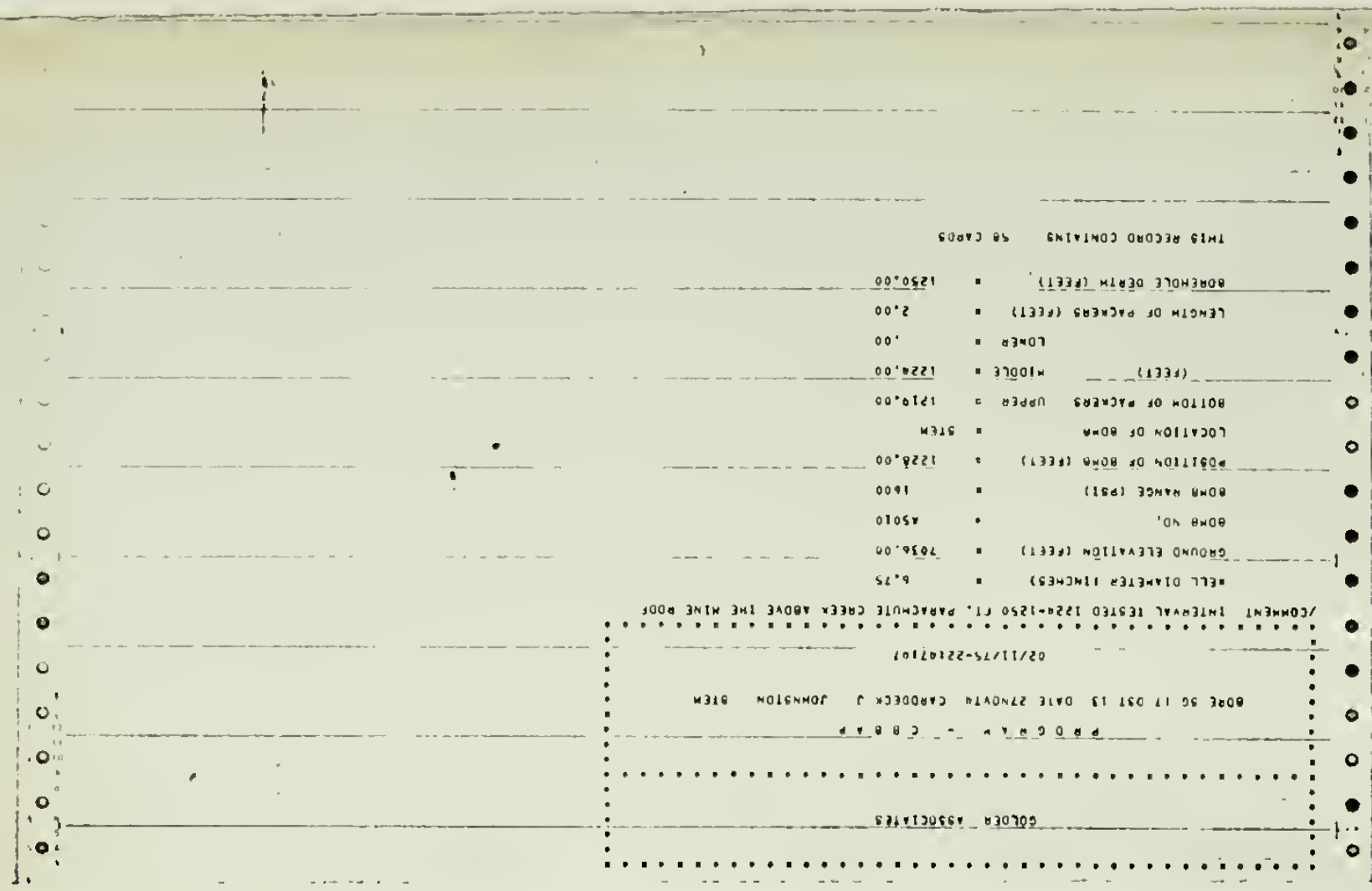
Date: Nov. 25, 1974 Interval tested: 1200-1224 ft.

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek A Groove

Golder Associates

SG - 17 D.S.T. - 11

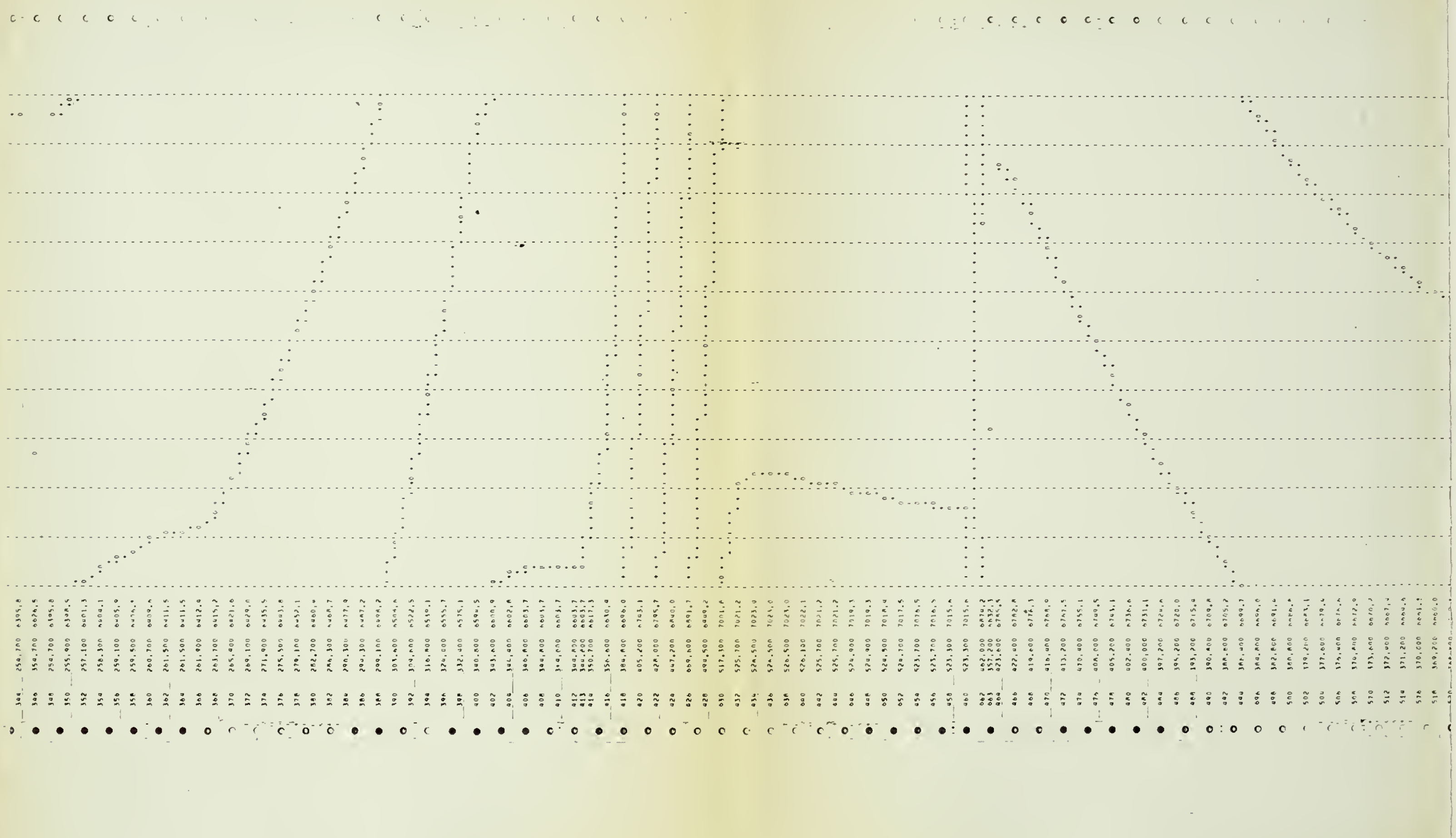

GOLDEN ASSOCIATES
PROGRAM - CBOAP
80RE 3G 17 DST 13 DATE 27NOV74 CARDDECK J JOHNSTON BIEM
02/11/75-22:42:07
/COMMENT INTERVAL ISSUED 1224-1250 FT. PARACHUTE CREEK ABOVE THE MINE ROOF
WELL DIAMETER (INCHES) = 6.75
GROUND ELEVATION (FEET) = 7036.00
BOMB NO. = A5010
BOMB RANGE (PSI) = 1600
POSITION OF BOMB (FEET) = 1228.00
LOCATION OF BOMB = STEM
BOTTOM OF PACKERS UPPER = 1210.00
(FEET) MIDDLE = 1224.00
LOWER = .00
LENGTH OF PACKERS (FEET) = 2.00
BOREHOLE DEPTH (FEET) = 1250.00
THIS RECORD CONTAINS 50 CARDS

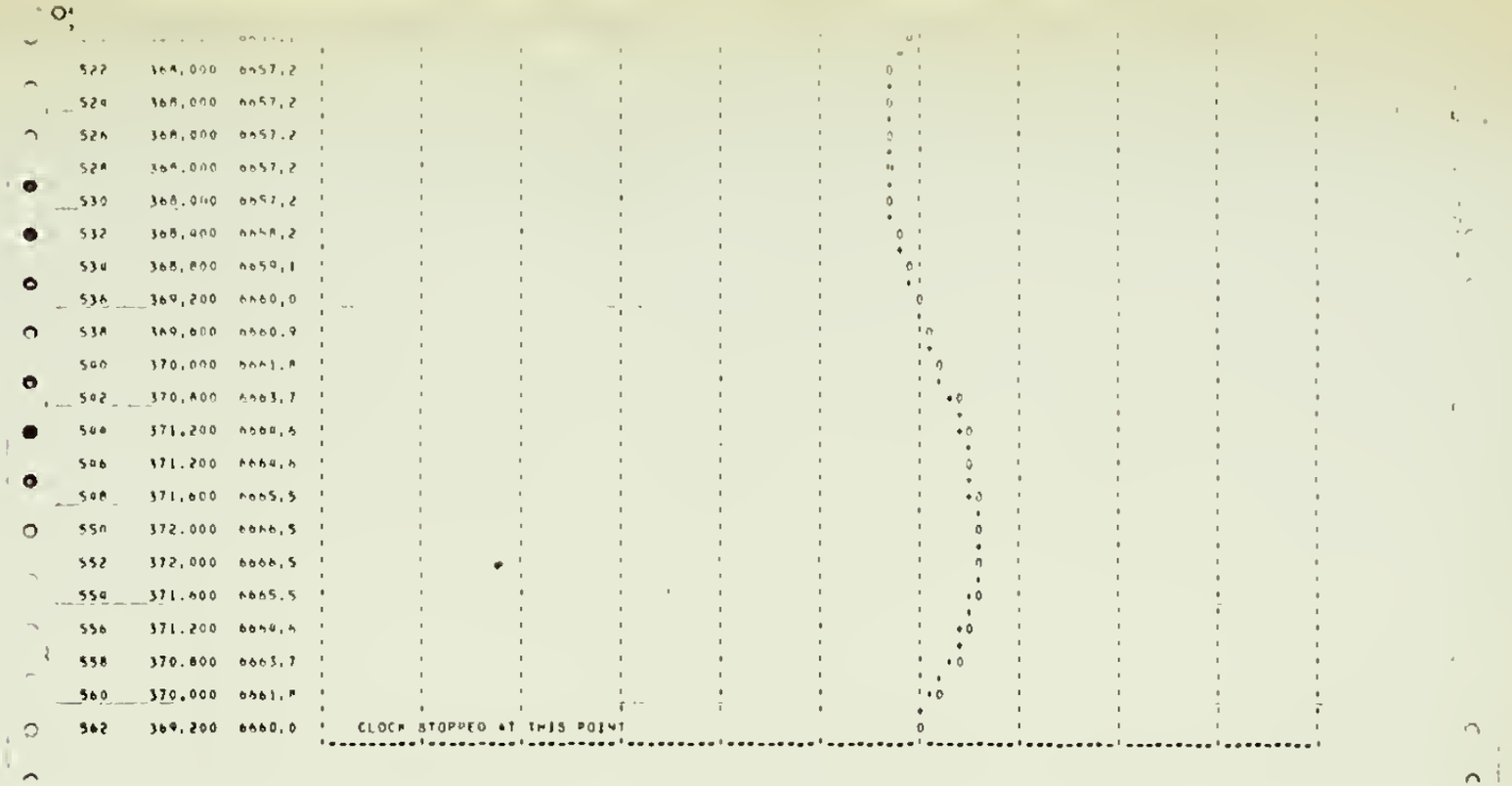
A001 SC 17 DST 13 DATE 27NOV74 CARODECK J JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSIG)	POTENTIAL (FEET)
536	313.600	6531.7
1	277.900	6449.3
2	281.500	6457.6
3	329.600	6568.6
4	347.600	6610.2
5	313.600	6531.7
6	313.200	6530.8
7	313.200	6530.8
8	313.200	6530.8
9	313.200	6530.8
10	313.200	6530.8
20	313.200	6530.8
30	313.200	6530.8
35	313.200	6530.8
40	330.800	6571.4
42	330.800	6571.4
44	296.300	6491.8
45	296.300	6491.8
46	296.300	6491.8
47	296.300	6491.8
48	296.300	6491.8
49	296.300	6491.8
50	296.300	6491.8
51	296.300	6491.8
52	296.300	6491.8
53	296.300	6491.8
54	296.300	6491.8
55	296.300	6491.8
60	296.300	6491.8
65	296.300	6491.8
70	296.300	6491.8
75	296.300	6491.8
80	296.300	6491.8
85	296.300	6491.8
90	296.700	6492.7
95	296.700	6492.7
100	296.700	6492.7
105	296.700	6492.7
110	296.700	6492.7
115	296.700	6492.7
120	296.700	6492.7
125	296.700	6492.7
130	296.700	6492.7
135	296.700	6492.7
140	296.700	6492.7
145	296.700	6492.7
150	296.700	6492.7
155	296.700	6492.7
160	296.700	6492.7
165	296.700	6492.7

170	296,700	6392,7
171	296,700	6392,7
175	295,900	6390,8
180	297,500	6390,5
182	302,800	6508,8
184	295,500	6389,9
186	289,900	6377,0
188	286,700	6369,6
190	283,500	6362,2
192	280,700	6355,4
194	277,900	6349,1
196	275,500	6343,8
198	273,500	6339,2
200	271,900	6335,5
202	269,900	6330,8
204	269,100	6329,0
206	267,900	6326,2
208	266,700	6323,5
210	265,500	6320,7
212	266,700	6318,8
214	263,900	6317,0
216	262,700	6314,2
218	262,300	6313,3
220	261,900	6312,4
222	261,100	6310,5
224	260,700	6309,6
226	260,300	6308,7
228	259,900	6307,8
230	259,500	6306,8
232	259,100	6305,9
234	258,700	6305,0
236	258,300	6304,1
237	257,900	6303,2
238	255,900	6298,5
240	253,900	6293,9
242	253,500	6293,0
244	253,500	6293,0
246	253,500	6293,0
248	253,900	6293,9
250	253,900	6293,9
252	253,900	6293,9
254	253,900	6293,9
256	254,300	6294,9
258	254,300	6294,8
260	254,300	6294,8
262	254,300	6294,8
264	254,300	6294,8
266	254,300	6294,8
268	254,300	6294,8
270	254,300	6294,8
272	254,300	6294,8
274	254,300	6294,8
276	254,300	6294,8
278	254,300	6294,8
280	254,300	6294,8
282	254,300	6294,8
284	254,300	6294,8
286	254,300	6294,8
288	254,300	6294,8
290	254,300	6294,8
292	254,300	6294,8
294	254,300	6294,8
296	254,300	6294,8
298	254,300	6294,8
300	254,300	6294,8
302	254,700	6295,8
304	254,700	6295,8
306	254,700	6295,8
308	254,700	6295,8
310	254,700	6295,8
312	254,700	6295,8
314	254,700	6295,8
316	254,700	6295,8
318	254,700	6295,8
320	254,700	6295,8
322	254,700	6295,8
324	254,700	6295,8
326	254,700	6295,8
328	254,700	6295,8
330	254,700	6295,8
332	254,700	6295,8
334	254,700	6295,8
336	254,700	6295,8
338	254,700	6295,8
340	254,700	6295,8
342	254,700	6295,8





II B-1040

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 13

Date: Nov. 27, 1974 Interval tested: 1224 - 1250 ft.

Pressure gouge: Johnston (Lower)

Formotion tested: Parachute Creek above the mine roof.

Golder Associates

SG - 17 D.S.T. - 13

GOLDER ASSOCIATES

PROGRAM - CRBAP

BORE SG 17 DST 13 DATE 27NOV78 CARODECP J JOHNSTON STEM

02/11/75-22:07:33

/COMMENT INTERVAL TESTED 1224-1250 FT, PARACHUTE CREEK ABOVE THE MINE ROOF

WELL DIAMETER (INCHES)	=	8.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	A5009
BOMB RANGE (PSI)	=	1500
POSITION OF BOMB (FEET)	=	1204.00

LOCATION OF BOMB = STEP

BOTTOM OF PACKERS (FEET) UPPER = 1219.00

MIDDLE = 1224.00

LOWER = .00

LENGTH OF PACKERS (FEET) = 2.00

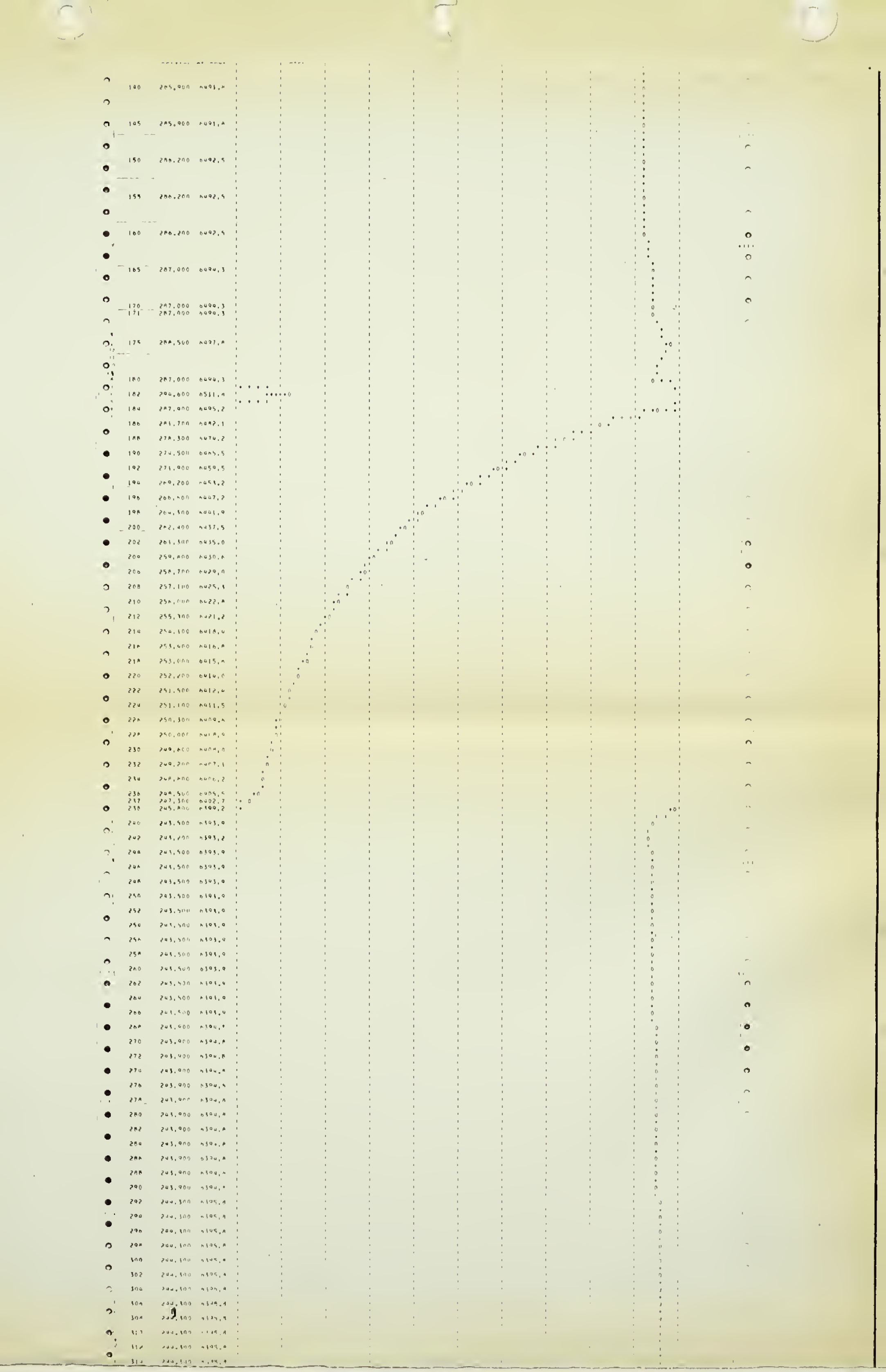
BOREHOLE DEPTH (FEET) = 1250.00

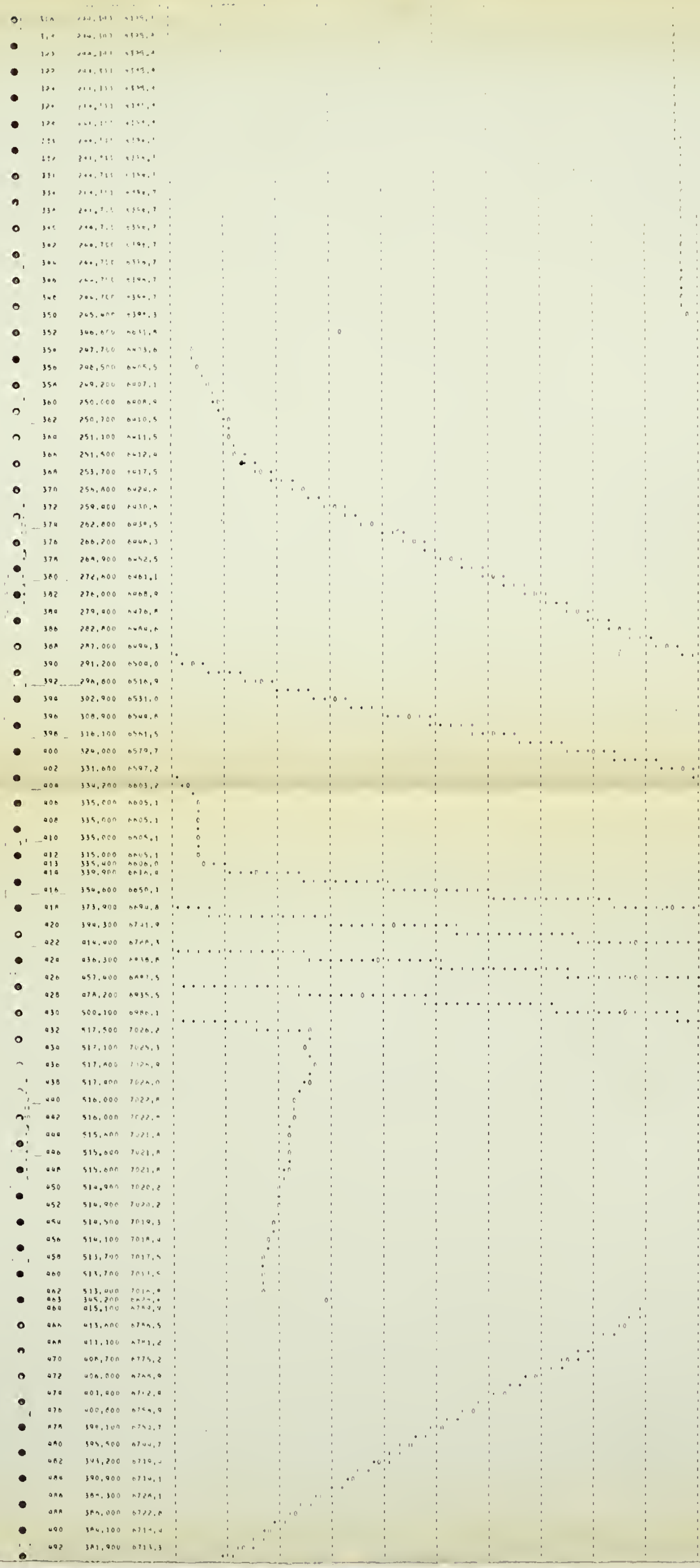
THIS RECORD CONTAINS 56 CARDS

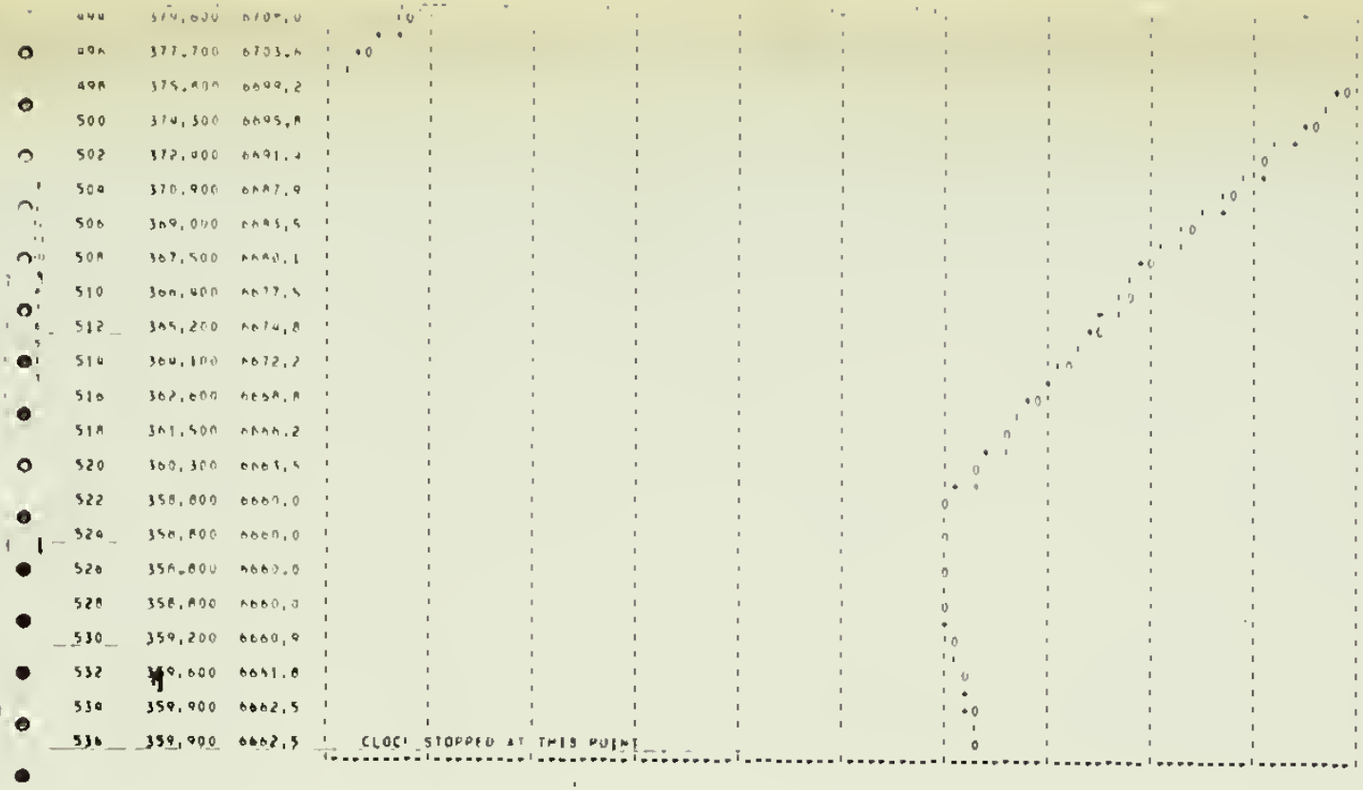
BORE 5G 17 DAY 13 DATE 27NOV74 CARDDECK J JOHNSTON STEP

. . . . WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) . . . .

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	148.700	6175.2
1	230.700	6348.8
2	300.400	6518.5
3	302.900	6531.0
4	302.100	6529.2
5	302.100	6529.2
6	302.100	6529.2
7	302.100	6529.2
8	302.100	6529.2
9	302.100	6529.2
10	302.100	6529.2
20	302.500	6530.1
30	302.500	6530.1
35	302.500	6530.1
40	320.300	6571.2
42	320.300	6571.2
44	259.800	6431.5
45	276.800	6470.8
46	283.600	6486.5
47	284.700	6489.0
48	284.700	6489.0
49	284.700	6489.0
50	284.700	6489.0
51	284.700	6489.0
52	284.700	6489.0
53	284.700	6489.0
54	285.100	6489.9
55	285.100	6489.9
60	285.100	6489.9
65	285.100	6489.9
70	285.100	6489.9
75	285.500	6490.8
80	285.500	6490.8
85	285.500	6490.8
90	285.500	6490.8
95	285.500	6490.8
100	285.500	6490.8
105	285.500	6490.8
110	285.500	6490.8
115	285.500	6490.8
120	285.900	6491.8
125	285.900	6491.8
130	285.900	6491.8
135	285.900	6491.8







II B-1041

NOTES:

C-b TRACT HYDROLOGY

Borehole no. *17* Drill stem test no. *13*

Date: *Nov. 27, 1974* Interval tested: *1224-1250 ft.*

Pressure gauge: *Johnston (Upper)*

Formation tested: *Parachute Creek above the mine roof.*

Golder Associates

SG - *17* D.S.T. - *13*

GOLDER ASSOCIATES

PROGRAM - CRSAP

BORE SG 17 OST 1A DATE 28NOV78 CARDDECK # JOHNSTON STEM

02/11/15-23:53:55

/COMMENT INTERVAL TESTED 1251-1280 FT. PARACHUTE CREEK MINING ZONE

WELL DIAMETER (INCHES)	•	6.75
GROUND ELEVATION (FEET)	•	7036.00
BOMB NO.	•	45010
BOMB RANGE (PSI)	•	1600
POSITION OF BOMB (FEET)	•	1255.80
LOCATION OF BOMB	•	STEM
BOTTOM OF PACKERS (FEET) UPPER	•	1248.00
MIDDLE	•	1251.00
LOWER	•	.00
LENGTH OF PACKERS (FEET)	•	2.00
BOREHOLE DEPTH (FEET)	•	1280.00

THIS RECORD CONTAINS 53 CARDS

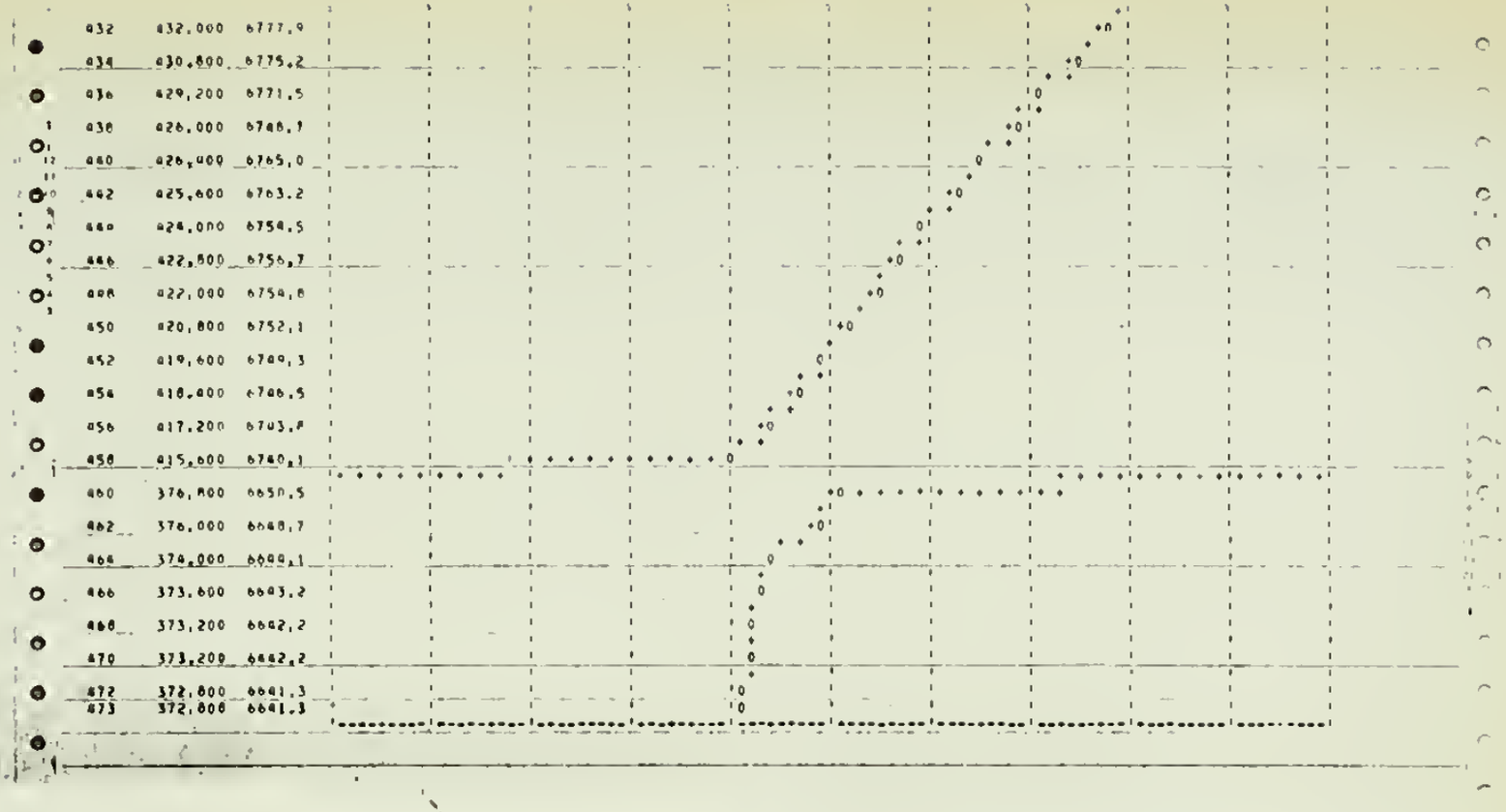
BORE SG 17 OST 1A DATE 28NOV78 CARDDECK # JOHNSTON STEM

• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
473	22,200	5832.2
1	21,400	5830.4
2	20,600	5827.8
3	151,100	6129.7
4	360,400	6612.7
5	360,800	6613.6
6	360,800	6613.6
7	360,800	6613.6
8	360,800	6613.6
9	360,800	6613.6
10	360,800	6613.6
20	361,200	6614.5
30	361,200	6614.5
34	361,200	6614.5
39	362,800	6618.2
40	30,200	5850.1
42	47,800	5891.3
44	58,600	5916.2
46	69,000	5940.2
48	78,200	5961.5
50	86,600	5980.8
52	96,600	6003.9
54	106,300	6026.3
56	117,500	6052.2
58	126,700	6073.4
60	133,500	6089.1
62	138,300	6100.2
64	148,900	6117.7
66	152,300	6132.5
68	155,900	6140.8
70	160,300	6150.9

72	169.700	6161.1
74	168.700	6170.3
76	172.700	6179.5
78	177.100	6189.7
80	181.100	6198.9
82	185.100	6208.2
84	189.100	6217.4
86	193.500	6227.5
88	196.700	6236.9
90	199.900	6242.3
92	203.900	6251.5
94	207.100	6258.9
96	211.100	6268.2
98	214.300	6275.5
100	217.900	6283.8
102	221.500	6292.2
104	224.700	6299.5
106	227.900	6306.9
108	231.500	6315.2
110	234.700	6322.6
112	237.900	6330.0
114	241.100	6337.4
116	244.300	6344.8
118	246.700	6350.3
120	249.500	6356.8
122	251.900	6362.3
124	254.300	6367.8
126	257.100	6374.3
128	259.900	6380.8
130	262.300	6386.3
132	264.700	6391.8
134	267.500	6398.3
136	269.900	6403.8
138	272.700	6410.3
140	274.700	6414.9
142	276.700	6419.5
144	279.100	6425.1
146	281.100	6429.7
148	283.100	6434.3
150	285.500	6439.0
152	287.100	6443.5
154	289.100	6448.2
156	290.700	6451.8
158	292.700	6456.5
160	294.300	6460.2
162	296.700	6465.7
164	298.300	6469.4
166	299.900	6473.1
168	301.600	6477.0
170	304.000	6482.5
172	305.200	6485.3
174	306.800	6489.0
176	308.900	6492.7
178	310.000	6496.4
180	311.600	6500.1
182	313.200	6503.8
184	314.900	6506.5
186	316.000	6510.2
188	317.200	6513.0
190	318.800	6515.8
192	319.600	6518.5
194	320.800	6521.3
196	322.000	6524.1
198	323.200	6526.0
200	324.400	6529.6
202	325.600	6532.4
204	326.800	6535.2
206	327.900	6537.0
208	328.800	6539.8
210	330.000	6542.5
212	330.800	6544.4
214	332.000	6547.2
216	332.800	6549.0
218	333.900	6550.8
220	334.900	6552.7
222	335.200	6554.5
224	336.000	6556.4
226	336.800	6558.2
228	337.600	6560.1
230	338.900	6561.9
232	339.200	6563.8
234	339.600	6564.7
236	340.000	6567.5
238	341.200	6568.4
240	342.000	6570.2
242	342.800	6572.1
244	343.200	6573.0
246	343.600	6573.9
248	344.400	6575.8
250	344.000	6576.7

252	305.200	6577.4
254	345.600	6578.5
256	344.400	6580.4
258	344.800	6581.3
260	347.200	6582.2
262	347.600	6583.7
264	351.200	6596.1
266	360.000	6611.8
268	366.400	6620.5
270	372.800	6641.3
272	378.400	6659.2
274	383.600	6666.2
276	389.200	6679.2
278	394.800	6692.1
280	400.400	6705.0
282	406.000	6717.9
284	410.800	6720.0
286	415.600	6740.1
288	421.200	6753.0
290	426.000	6764.1
292	430.800	6775.2
294	435.200	6785.3
296	439.200	6798.5
298	444.400	6815.8
300	457.600	6837.0
302	466.000	6856.4
304	473.200	6873.0
306	481.200	6891.5
308	488.800	6908.1
310	495.600	6924.7
312	503.300	6942.5
314	510.100	6958.2
316	516.000	6973.8
318	523.700	6980.5
320	530.500	7005.2
322	537.700	7021.8
320	542.100	7032.0
326	542.500	7032.9
328	503.700	7035.7
330	544.900	7038.5
332	545.300	7039.8
334	545.700	7040.3
336	546.100	7041.2
338	546.500	7042.2
340	546.900	7043.1
342	506.000	7043.1
344	506.000	7043.1
346	544.100	7027.4
348	534.100	7013.5
350	530.100	7004.3
352	526.100	6995.1
354	522.100	6985.8
356	518.100	6976.6
358	514.100	6967.4
360	510.100	6958.2
362	506.900	6950.8
364	503.300	6942.5
366	499.600	6933.0
368	496.800	6927.5
370	494.000	6921.0
372	490.000	6912.7
370	487.600	6906.2
376	484.000	6897.0
378	481.400	6892.8
380	478.800	6885.9
382	476.000	6879.5
384	473.600	6873.0
386	471.200	6868.8
388	468.800	6862.8
390	466.800	6858.2
392	464.800	6852.7
394	462.800	6849.0
396	460.000	6843.5
398	458.400	6838.8
000	056.000	6833.3
402	454.800	6830.5
400	452.800	6825.9
406	451.200	6822.2
408	450.000	6810.5
410	448.000	6814.8
012	446.000	6810.2
414	444.800	6807.5
416	443.200	6803.8
418	441.400	6800.1
020	440.000	6796.4
422	438.800	6792.7
424	436.800	6788.0
426	436.000	6787.2
028	434.800	6780.4
430	433.200	6780.7



II B-1042

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 14

Date: Nov. 28, 1974. Interval tested: 1251-1280ft.

Pressure gauge: Johnston (Lower)

Farmatian tested: Parachute Creek Mine Roof

Golder Associates

SG - 17 D.S.T. - 14

COLDER ASSOCIATES

PROGRAM - CRRAP

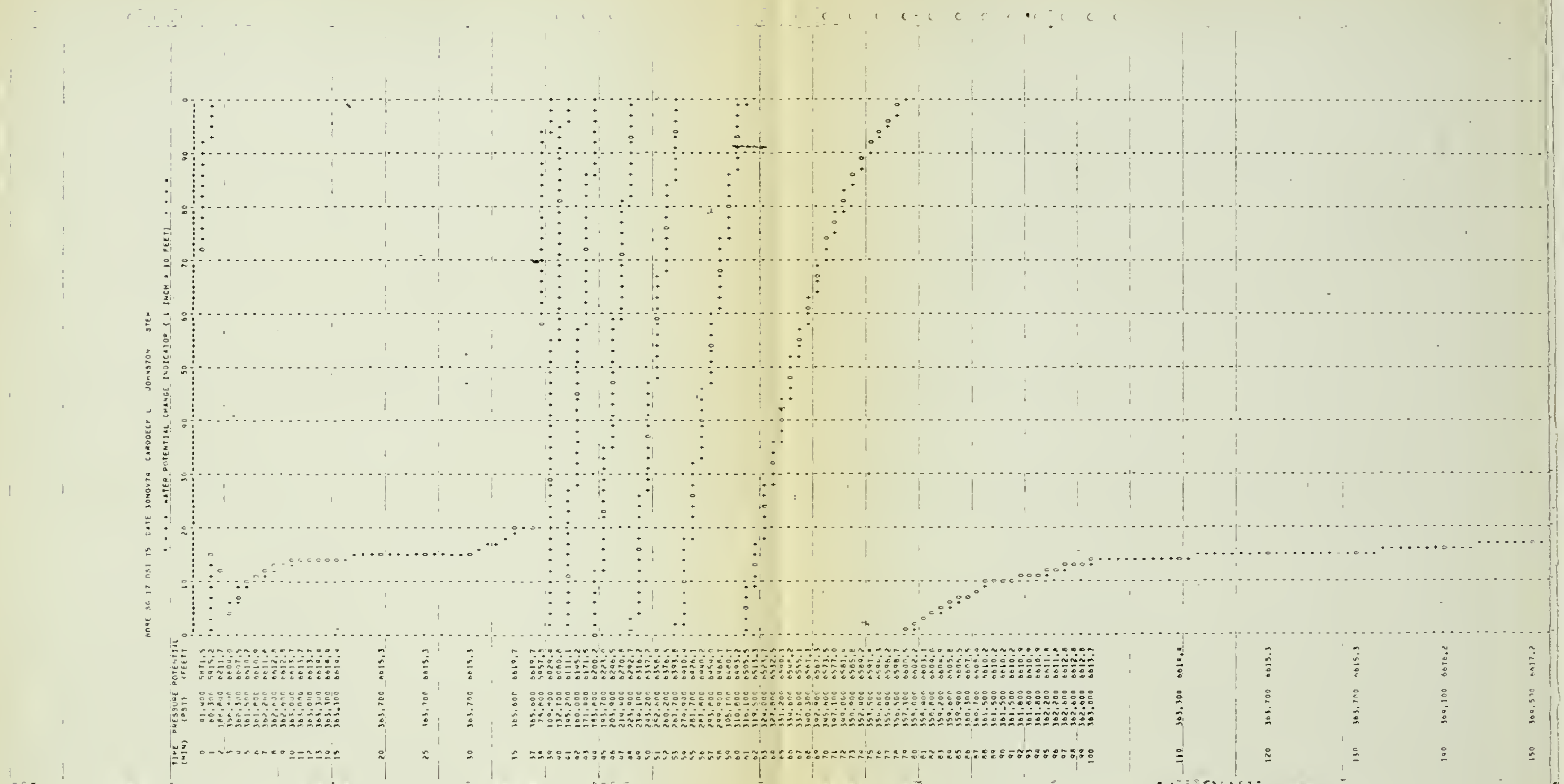
BORE SG 17 OST 15 DATE 30NOV78 CARDDECK L JOHNSTON STEM

02/12/79-0011316

/COMMENT INTERVAL TESTED 1240-1309 FT, PARACHUTE CREEK MINING ZONE

WELL DIAMETER (INCHES)		=	7.75
GROUND ELEVATION (FEET)		=	7034.00
BOMB NO.		=	A5009
BOMB RANGE (PSIT		=	7500
POSITION OF BOMB (FEET)		=	1260.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1275.00
	MIDDLE	=	1280.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1309.00

THIS RECORD CONTAINS 48 CARDS



TIME (MIN)	PRESSURE (PSIA)	POTENTIAL (FEET)		
0	81,400	5471.5		
1	80,300	5915.2		
2	184,400	6211.7		
3	359,400	6400.0		
4	360,300	6607.5		
5	361,500	6610.2		
6	361,800	6611.4		
7	362,200	6612.4		
8	362,600	6612.8		
9	365,000	6613.7		
10	363,000	6613.7		
11	363,000	6613.7		
12	363,300	6613.7		
13	363,300	6613.8		
14	363,300	6613.8		
15	363,300	6613.8		
20	363,700	6615.3		
25	363,700	6615.3		
30	363,700	6615.3		
35	365,000	6619.7		
37	365,000	6619.7		
38	74,000	5957.8		
39	100,900	6029.8		
40	132,100	6060.8		
41	145,200	6111.1		
42	160,000	6145.2		
43	171,000	6171.5		
44	183,800	6200.2		
45	193,700	6221.6		
46	203,900	6246.5		
47	214,000	6270.8		
48	223,900	6292.7		
49	234,100	6316.2		
50	243,200	6337.2		
51	252,600	6358.8		
52	260,200	6376.5		
53	267,700	6393.8		
54	270,900	6410.4		
55	281,700	6424.1		
56	287,400	6440.2		
57	293,800	6454.6		
58	298,900	6468.1		
59	305,700	6480.1		
60	310,800	6493.2		
61	316,100	6505.5		
62	319,500	6513.3		
63	324,000	6521.7		
64	327,600	6532.5		
65	331,200	6540.3		
66	334,300	6548.2		
67	340,300	6561.1		
68	342,900	6567.3		
70	345,900	6573.5		
71	347,100	6577.0		
72	349,000	6581.4		
73	350,000	6585.8		
74	352,400	6589.2		
75	351,500	6591.4		
76	355,400	6594.3		
77	355,900	6596.2		
78	356,500	6598.7		
79	357,300	6600.5		
80	358,400	6602.2		
81	358,400	6603.1		
82	358,800	6604.0		
83	359,200	6604.9		
84	359,600	6605.8		
85	359,900	6605.8		
86	360,300	6607.5		
87	360,700	6608.0		
88	361,500	6610.2		
89	361,500	6610.2		
90	361,500	6610.2		
91	361,500	6610.2		
92	361,800	6610.9		
93	361,800	6610.9		
94	362,200	6611.8		
95	362,200	6611.8		
96	362,200	6611.8		
97	362,600	6612.8		
98	362,600	6612.8		
100	363,000	6613.7		
110	363,300	6614.4		
120	363,700	6615.3		
130	363,700	6615.3		
140	364,100	6616.2		
150	364,500	6617.2		

160	364,500	6617,2
170	360,500	6617,2
180	365,200	6618,8
190	365,200	6618,8
200	365,600	6619,7
210	365,600	6619,7
220	366,000	6620,4
230	367,500	6624,1
240	367,500	6624,1
250	367,100	6623,2
260	367,100	6623,2
265	366,700	6622,2
267	366,000	6712,9
269	280,600	6623,5
270	285,500	6634,8
272	307,800	6686,3
274	319,100	6512,4
276	329,100	6535,9
278	336,500	6552,5
280	383,400	6660,8
282	316,100	6505,5
284	307,000	6690,5
286	305,100	6690,1
288	305,100	6690,1
290	304,800	6679,0
292	304,400	6678,5
294	304,400	6678,5
296	304,400	6678,5
298	304,000	6677,5
300	304,000	6677,5
302	304,000	6677,5
304	303,600	6676,6
306	303,600	6676,6
308	303,600	6676,6
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312	303,600	6676,6
314	303,600	6676,6
316	303,600	6676,6
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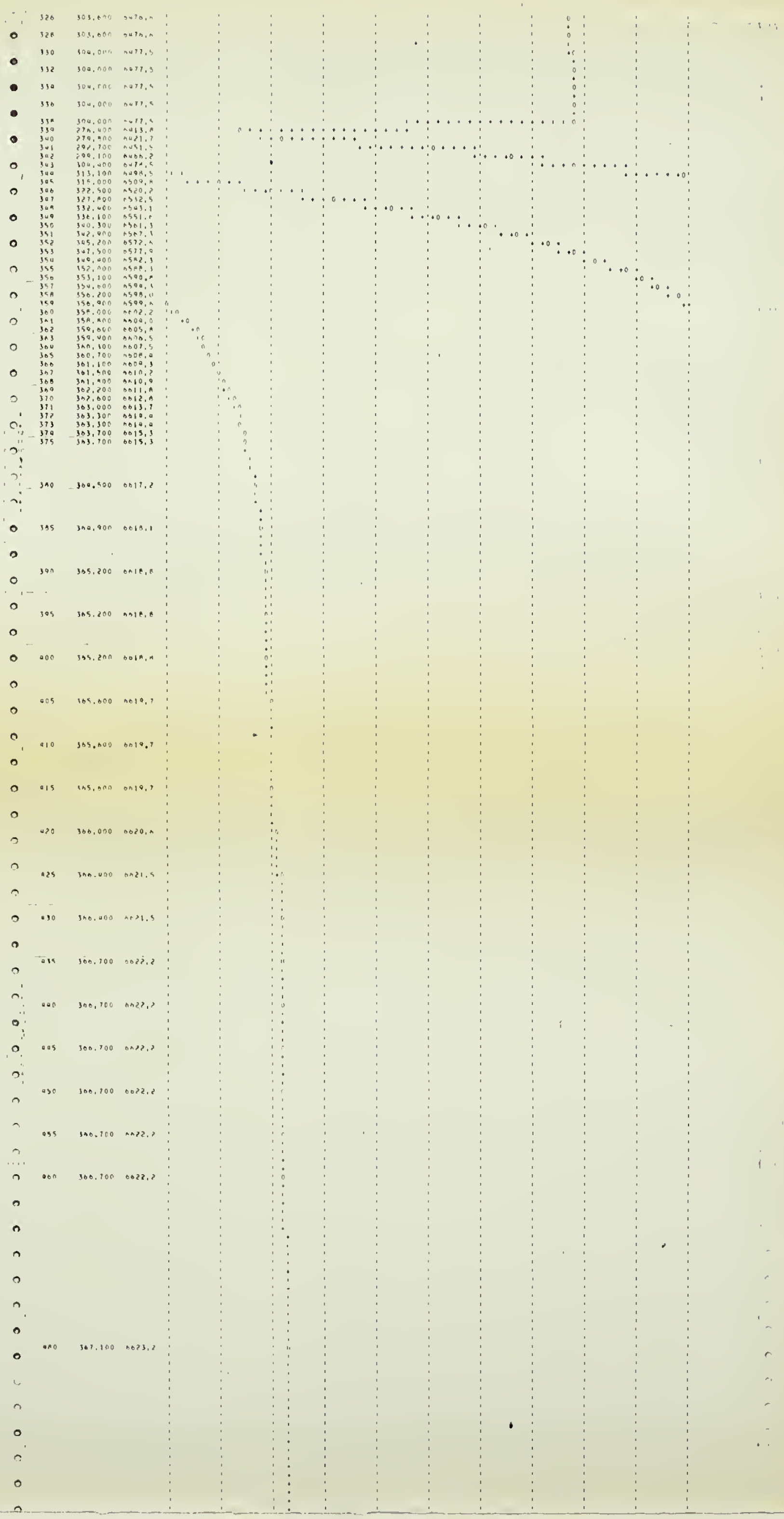
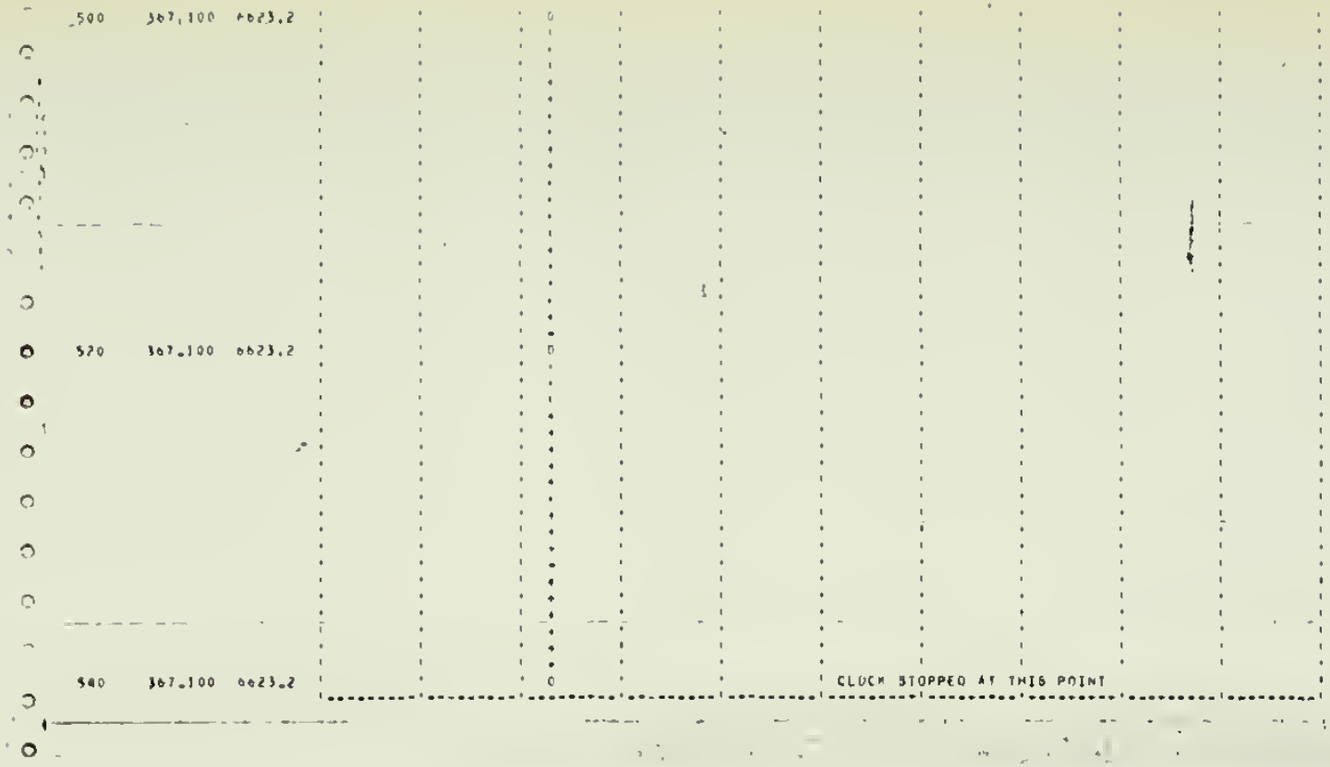
322	303,600	6676,6
324	303,600	6676,6





II B-1043

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 15

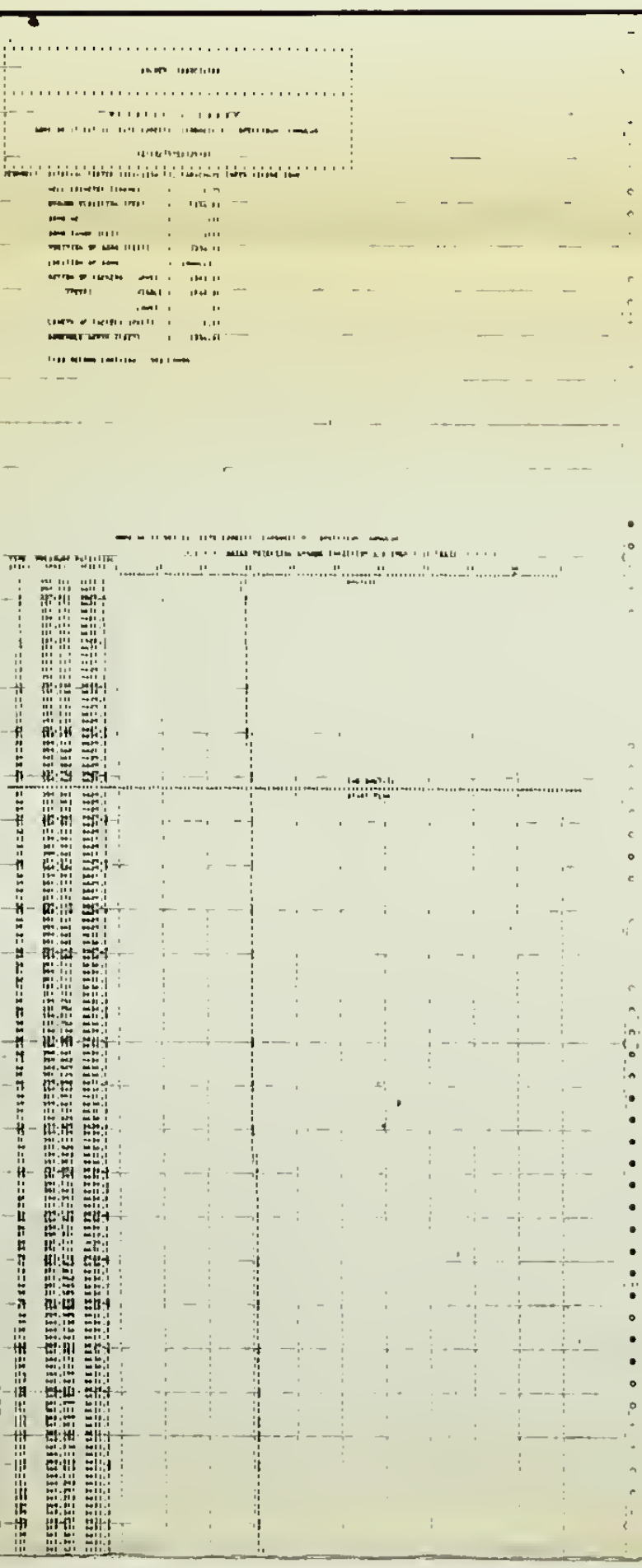
Dote: Nov. 3, 1974 Intervol tested: 1280-1309 ft.

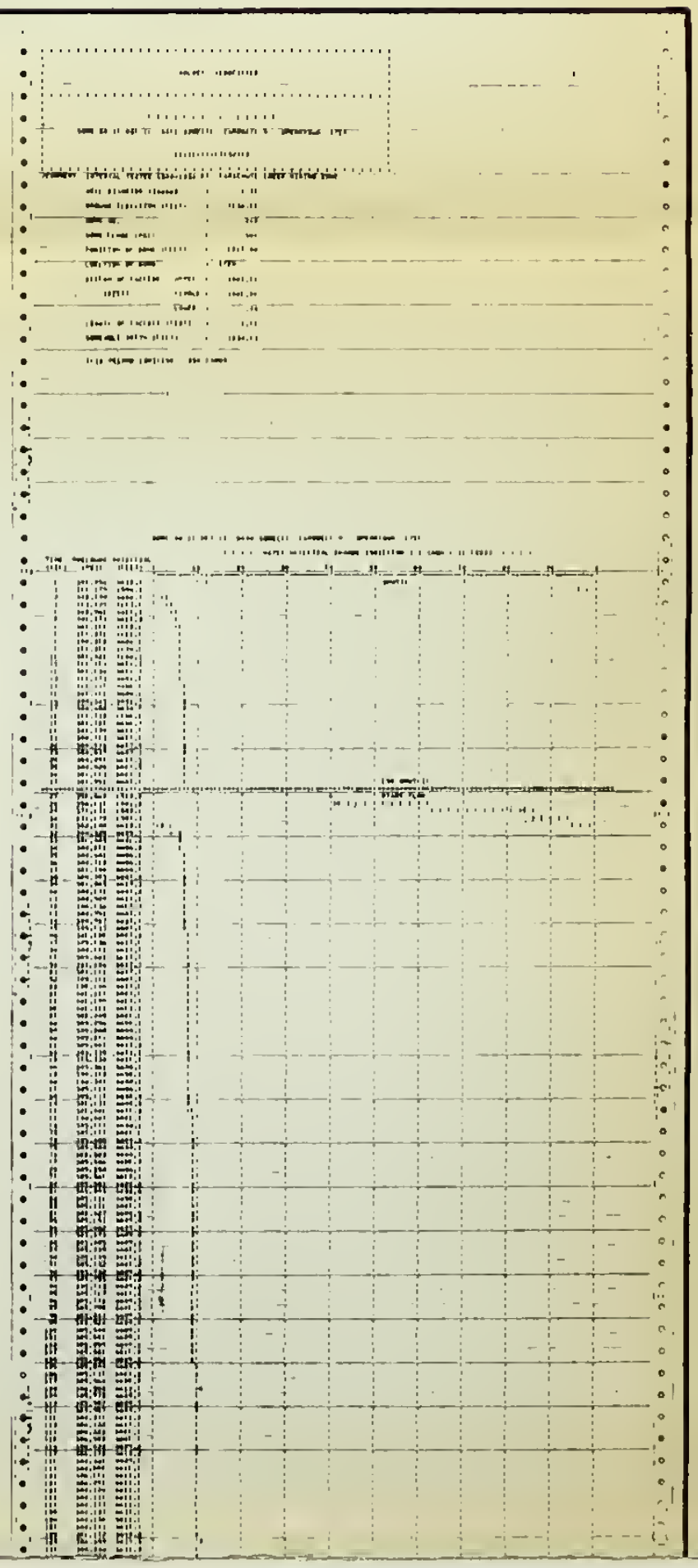
Pressure gouge: Johnston (Upper)

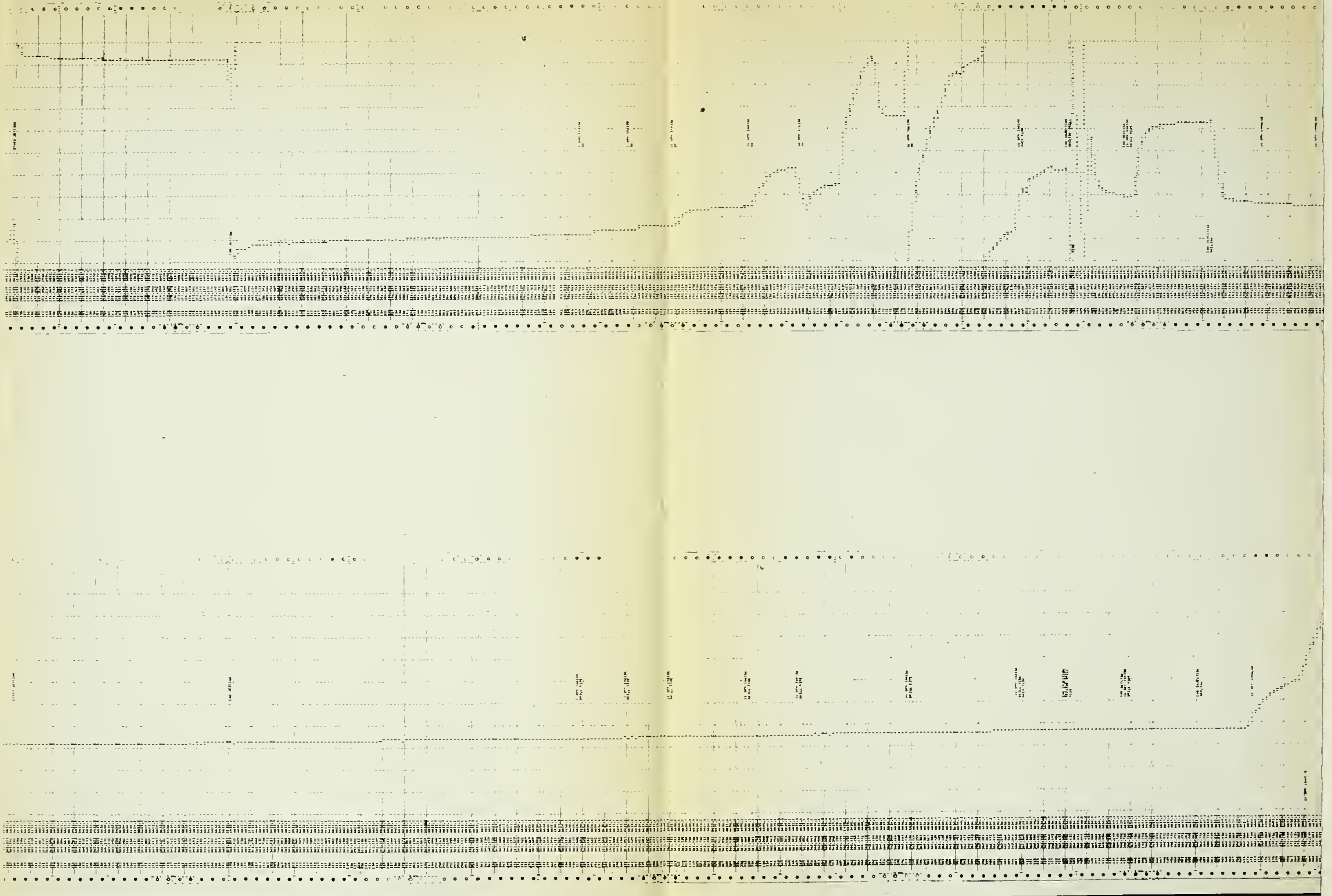
Formotion tested: Parachute Creek Mining Zone

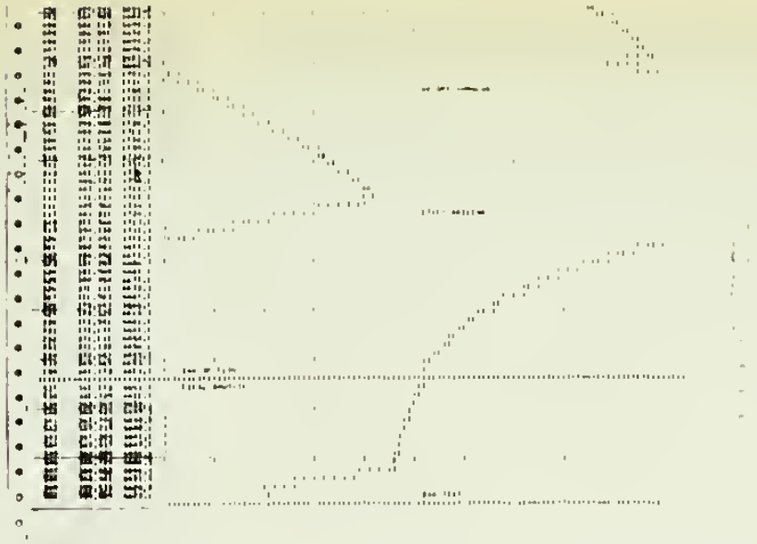
Golder Associates

SG - 17 D.S.T. - 15

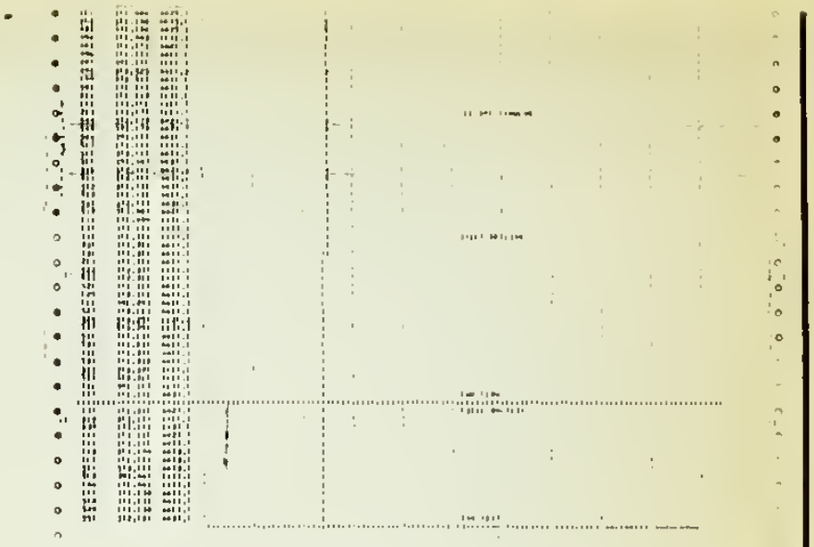








ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1044

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

Borehole no 17 Drill stem test no 16

Dote: Dec. 2, 1974 Intervol tested 1308-1336ft.

Pressure gouges Sperry Sun

Formotion tested Parachute Creek Mining Floor

SG- 17 D.S.T.- 16

GOLDER ASSOCIATES

PROGRAM : CHRAP

BORE SG 17 DST 16 DATE 02DEC76 CARDDECK # JOHNSTON STEM

02/12/76-01140139

/COMMENT INTERVAL TESTED 1300-1336 FT. PARACHUTE CREEK MINING ZONE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	A5009
BOMB RANGE (PSI)		=	1500
POSITION OF BOMB (FEET)		=	1288.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1303.00
	MIDDLE	=	1308.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1336.00

THIS RECORD CONTAINS 54 CHRCS

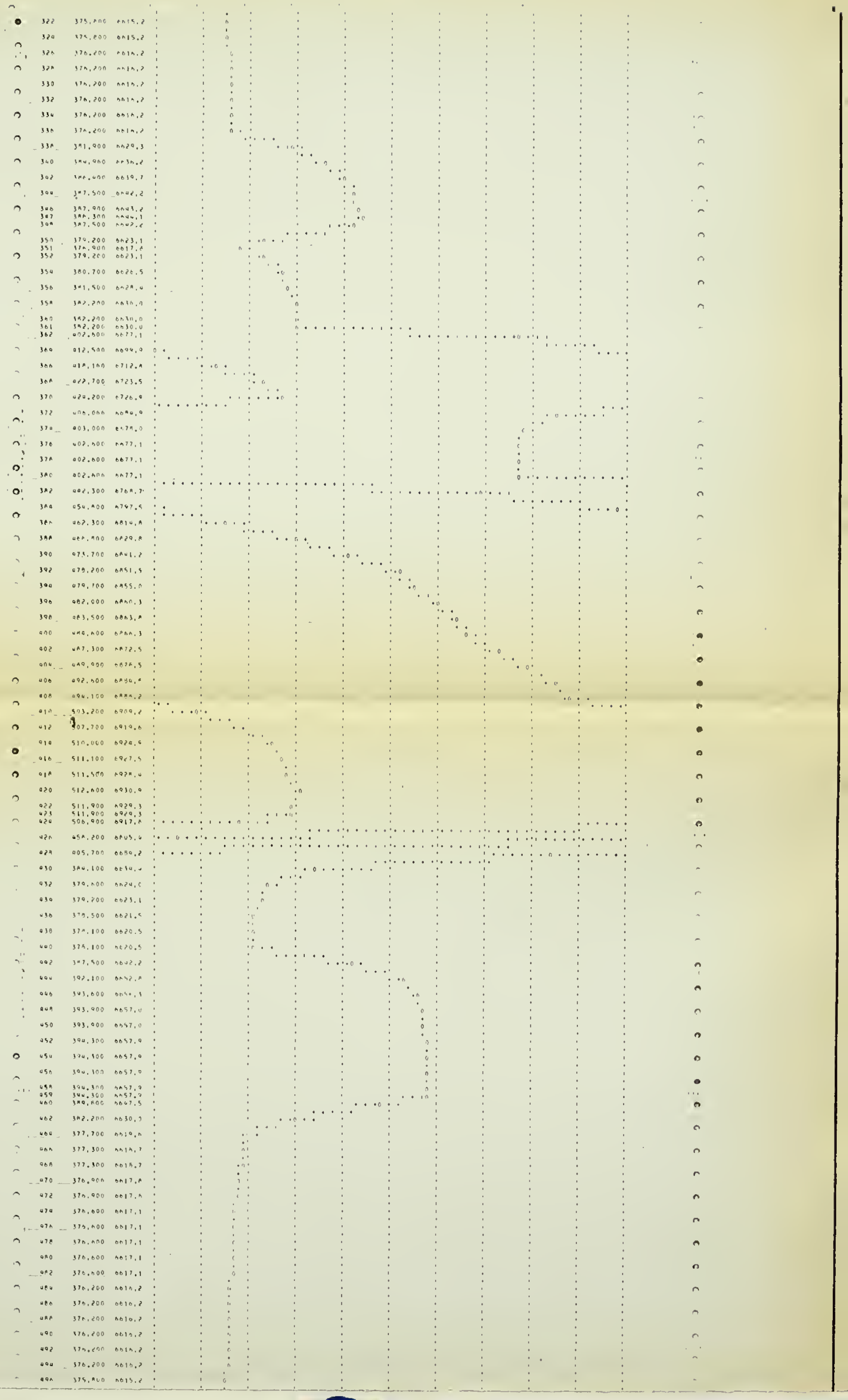
BORE 5G 17 D37 16 DATE 02DEC74 CARDDECK M JOHNSTON SIEM

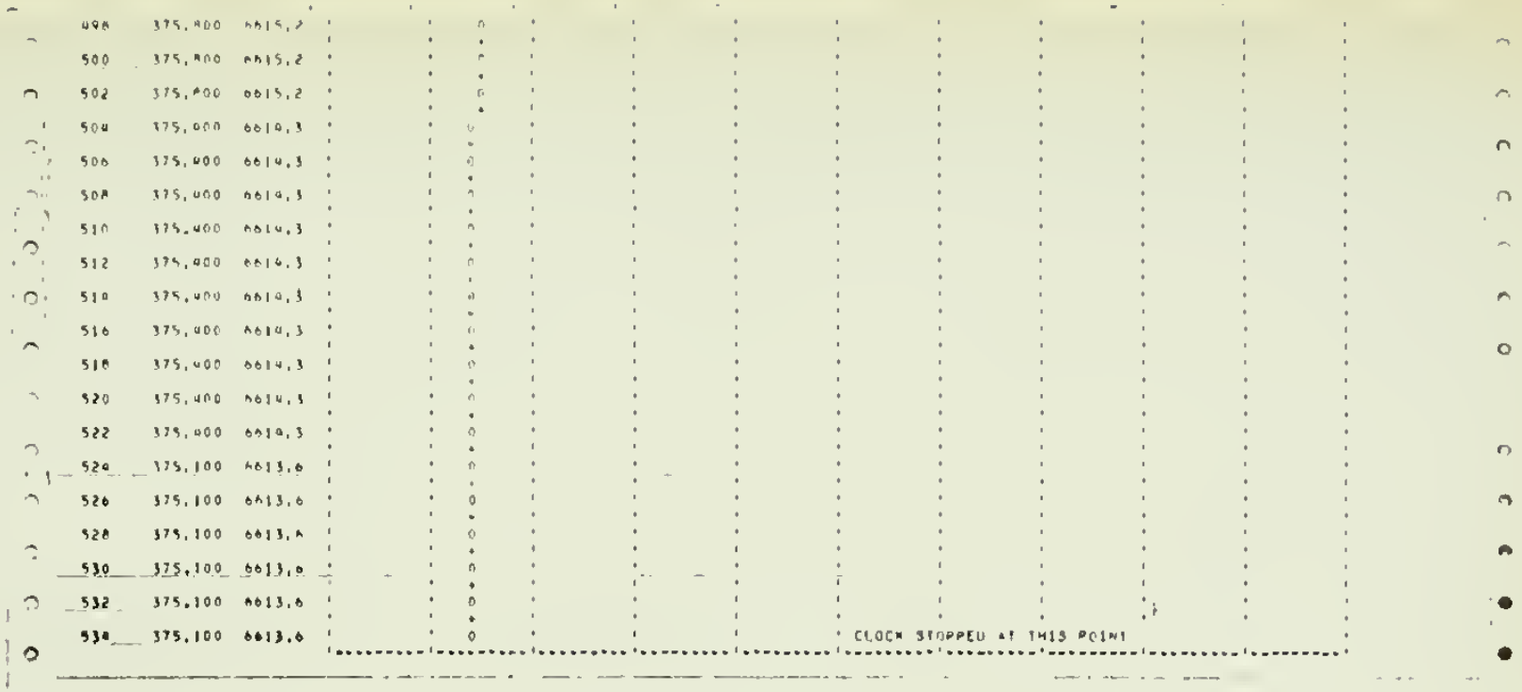
TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	124.500	6035.3
1	261.700	6351.9
2	366.000	6592.8
3	366.400	6593.5
4	366.700	6594.2
5	367.100	6595.2
6	367.100	6595.2
7	367.500	6596.1
8	367.500	6596.1
9	367.500	6596.1
10	367.500	6596.1
20	367.900	6597.0
22	367.900	6597.0
27	368.300	6597.9
28	287.900	6411.2
29	366.100	6588.2
30	366.400	6593.5
31	367.100	6595.2
32	367.500	6596.1
33	367.500	6596.1
34	367.500	6596.1
35	367.500	6596.1
36	367.500	6596.1
37	367.500	6596.1
38	367.500	6596.1
39	367.500	6596.1
40	367.500	6596.1
50	367.900	6597.0
60	368.300	6597.9
70	368.300	6597.9
80	368.600	6598.6
90	369.000	6599.5
100	369.400	6600.5
110	369.800	6601.4
120	369.400	6600.5
126	369.400	6600.5
128	369.400	6600.5
130	369.800	6601.4
132	369.800	6601.4
134	375.100	6613.6
136	351.100	6562.2
138	359.900	6578.5
140	359.900	6578.5
141	359.900	6578.5
198	359.900	6578.5

• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

0 10 20 30 40 50 60 70 80 90 0

1	1AA	359,900	6576,5
2	1A8	159,600	6577,A
3	150	359,600	6577,A
4	152	359,600	6577,A
5	154	359,600	6577,A
6	156	359,600	6577,A
7	158	359,600	6577,A
8	160	359,200	6576,9
9	162	359,200	6576,9
10	164	359,200	6576,9
11	166	359,200	6576,9
12	168	359,200	6576,9
13	170	359,200	6576,9
14	172	359,200	6576,9
15	174	359,200	6576,9
16	176	359,200	6576,9
17	178	359,200	6576,9
18	180	359,200	6576,9
19	182	359,200	6576,9
20	184	359,200	6576,9
21	186	359,200	6576,9
22	188	359,200	6576,9
23	190	359,200	6576,9
24	192	359,200	6576,9
25	194	358,800	6576,0
26	195	382,800	6538,A
27	196	358,000	6574,2
28	197	366,700	6590,2
29	198	367,100	6595,2
30	199	367,500	6596,1
31	200	367,900	6597,0
32	201	368,300	6597,9
33	202	368,300	6597,9
34	203	368,300	6597,9
35	204	368,300	6597,9
36	205	368,300	6597,9
37	210	368,600	6598,6
38	215	369,000	6599,5
39	220	369,000	6599,5
40	225	369,000	6599,5
41	230	369,400	6600,5
42	235	369,400	6600,5
43	240	369,400	6600,5
44	245	369,400	6600,5
45	250	369,400	6600,5
46	260	369,400	6600,5
47	270	369,400	6600,5
48	280	369,800	6601,4
49	290	369,800	6601,4
50	300	370,900	6603,9
51	310	372,000	6606,5
52	316	372,000	6606,5
53	318	375,400	6614,3
54	320	375,400	6614,3





II B-1045

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 16

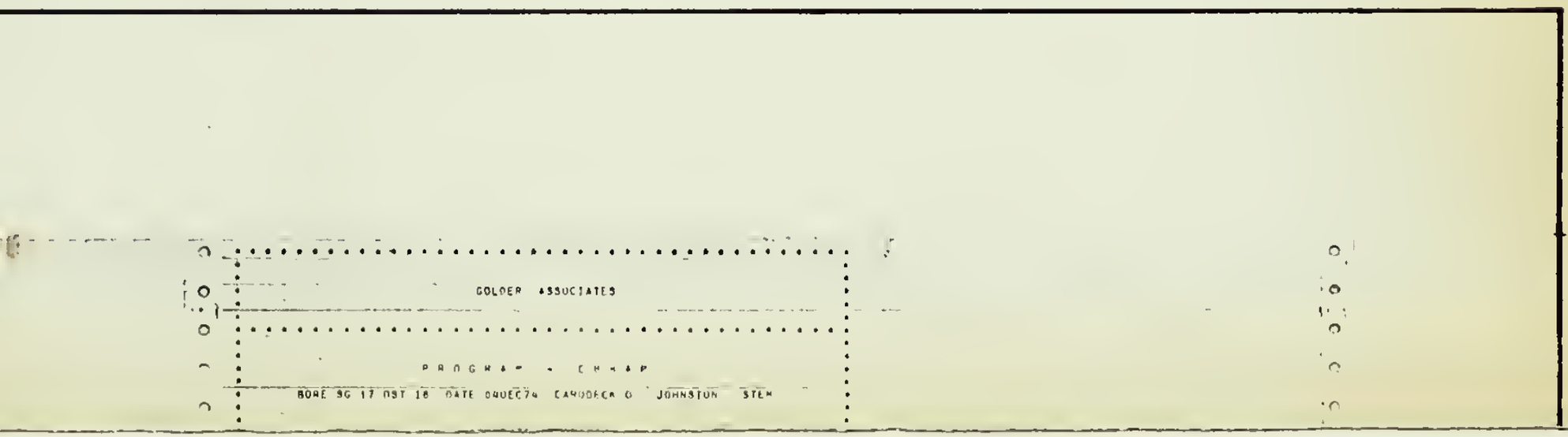
Date: Dec. 2, 1974 Interval tested: 1308 - 1336 ft.

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek mine floor

Golder Associates

SG - 17 D.S.T. - 16


GOLDER ASSOCIATES
BORE SG 17 OST 18 DATE 04DEC74 CAMODECA G JOHNSTON STEM

/COMMENT INTERVAL TESTED 1373-1419FT. PANACHLITE CHEEK STRADDLING B GROOVE

WELL DIAMETER (INCHES)	=	6.75	
GROUND ELEVATION (FEET)	=	7036.00	
BOMB NO.	=	A5010	
BOMB RANGE (PSI)	=	1400	
POSITION OF BOMB (FEET)	=	1382.00	
LOCATION OF BOMB	=	STEM	
BOTTOM OF PACKERS (FEET)	UPPER =	1369.00	
	MIDDLE =	1373.00	
	LOWER =	.00	
LENGTH OF PACKERS (FEET)	=	2.00	
BOREHOLE DEPTH (FEET)	=	1419.00	

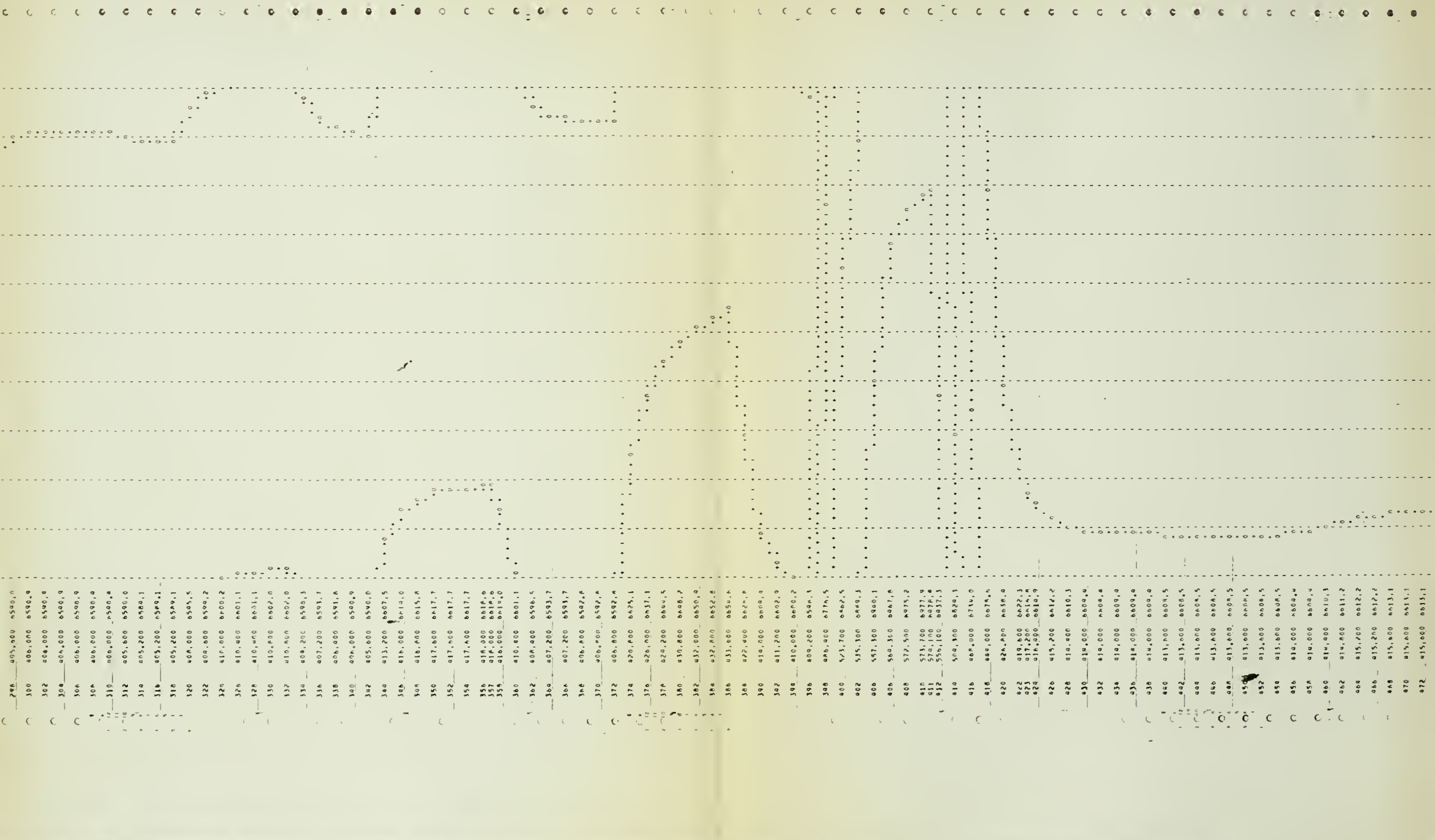
THIS RECORD CONTAINS 58 CARDS

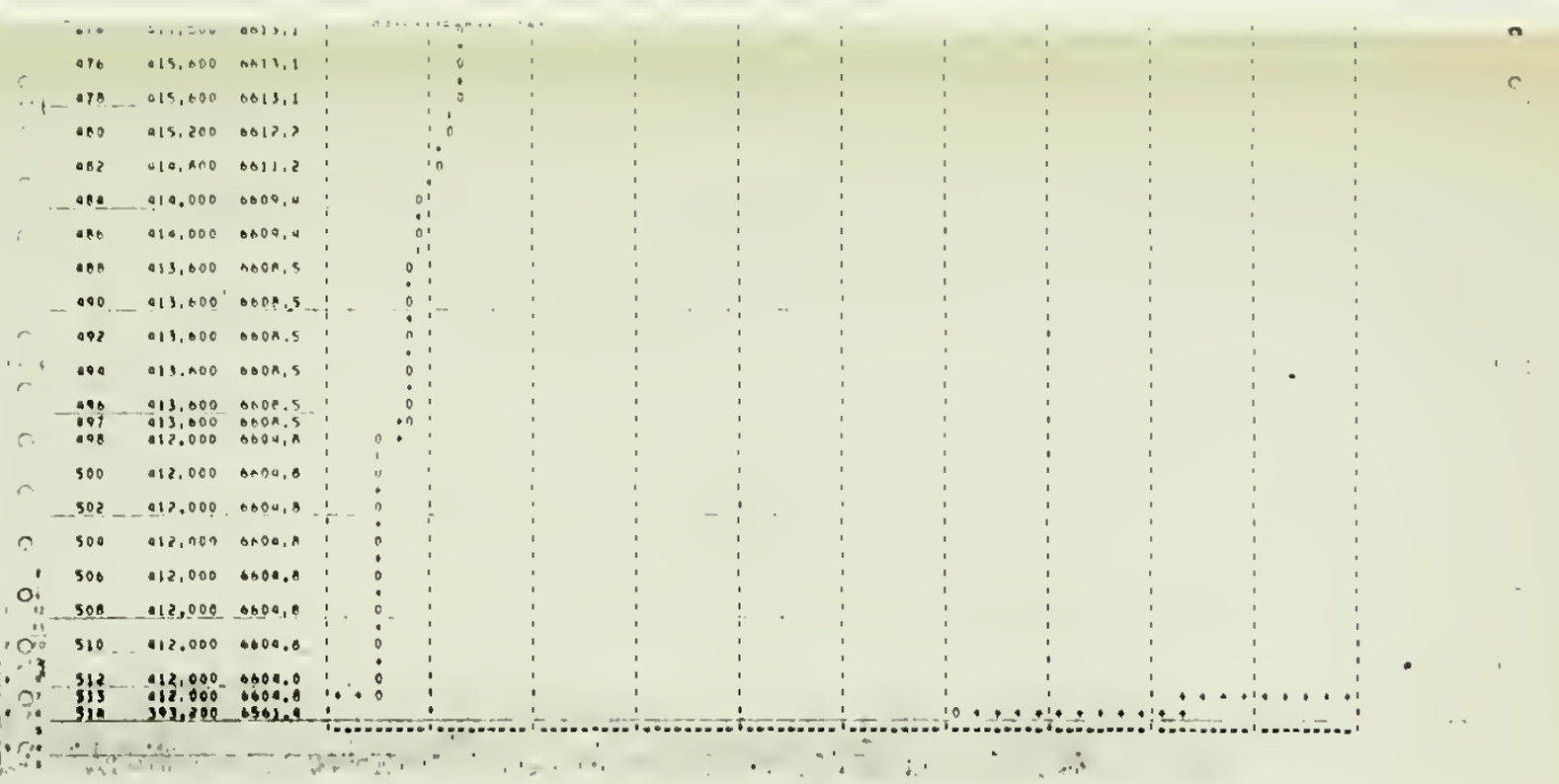
BORE 56 17 051 1A DATE OBJECTU CARDOFF 0 JOHNSTON STEM

* * * * RATE POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
518	390.700	6094.1
1	347.100	6224.2
2	392.800	6560.5
3	395.600	6568.9
4	396.800	6569.7
5	397.200	6570.8
6	397.600	6571.5
7	398.000	6573.4
8	398.000	6573.4
9	398.400	6573.4
10	398.400	6573.0
15	398.800	6574.3
20	399.200	6575.2
25	399.600	6576.2
30	399.600	6576.2
35	400.800	6579.9
37	400.800	6579.9
38	270.700	6257.0
39	309.600	6368.5
40	339.200	6436.8
41	364.800	6495.8
42	376.400	6522.6
43	386.000	6544.8
44	391.600	6557.7
45	394.800	6565.1
46	396.400	6568.8
47	397.600	6571.5
48	398.400	6573.4
49	398.800	6574.3
50	399.200	6575.2
51	399.200	6575.2
52	399.600	6576.2
53	399.600	6576.2
54	400.000	6577.1
55	400.000	6577.1
56	400.000	6577.1
57	400.000	6577.1
58	400.400	6578.0
59	400.400	6578.0
60	400.400	6578.0
70	400.800	6578.9
80	401.200	6579.8
90	401.200	6579.8
100	401.600	6580.8
110	402.000	6581.7

120	402,000	6581,7
130	403,600	6585,4
140	402,000	6583,5
150	402,800	6543,5
152	020,000	6632,5
150	376,800	6523,5
155	388,A00	6551,2
160	386,400	6550,3
170	387,600	6548,5
180	387,200	6547,5
190	387,200	6547,5
200	387,200	6547,5
210	387,200	6547,5
211	385,A00	6497,7
212	380,800	6532,8
213	391,200	6556,A
214	395,200	6566,0
215	396,800	6569,7
216	398,400	6573,6
217	399,600	6576,2
218	400,000	6578,0
219	400,800	6578,9
220	401,200	6579,8
221	401,600	6580,A
222	401,600	6580,8
223	401,A00	6580,8
224	401,600	6580,A
225	401,A00	6580,8
230	402,000	6581,7
235	402,400	6582,6
240	402,800	6583,5
245	403,200	6584,5
250	403,200	6584,5
255	403,200	6584,5
260	403,200	6584,5
265	403,200	6584,5
270	403,600	6585,4
275	404,600	6585,0
280	403,600	6585,8
285	403,600	6585,8
290	404,000	6586,3
294	404,000	6586,3
296	404,000	6587,2





476	415,600	6613.1	0
478	415,600	6613.1	0
480	415,200	6612.2	0
482	414,800	6611.2	0
484	414,000	6609.4	0
486	414,000	6609.4	0
488	413,600	6608.5	0
490	413,600	6608.5	0
492	413,600	6608.5	0
494	413,600	6608.5	0
496	413,600	6608.5	0
497	413,600	6608.5	0
498	412,000	6604.8	0
500	412,000	6604.8	0
502	412,000	6604.8	0
504	412,000	6604.8	0
506	412,000	6604.8	0
508	412,000	6604.8	0
510	412,000	6604.8	0
512	412,000	6604.8	0
513	412,000	6604.8	0
518	393,200	6561.4	0

II B-1046

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 18

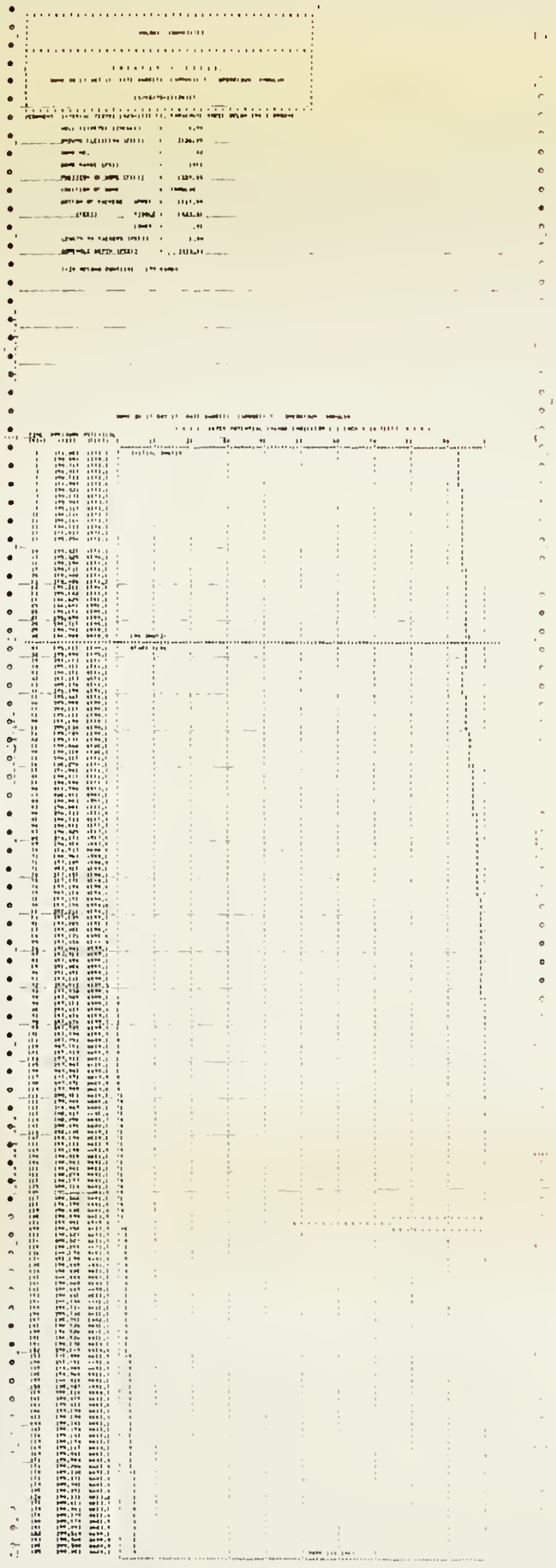
Dote: Dec. 4, 1974 Intervol tested: 1373 - 1419 ft.

Pressure gouge: Johnston (Lower)

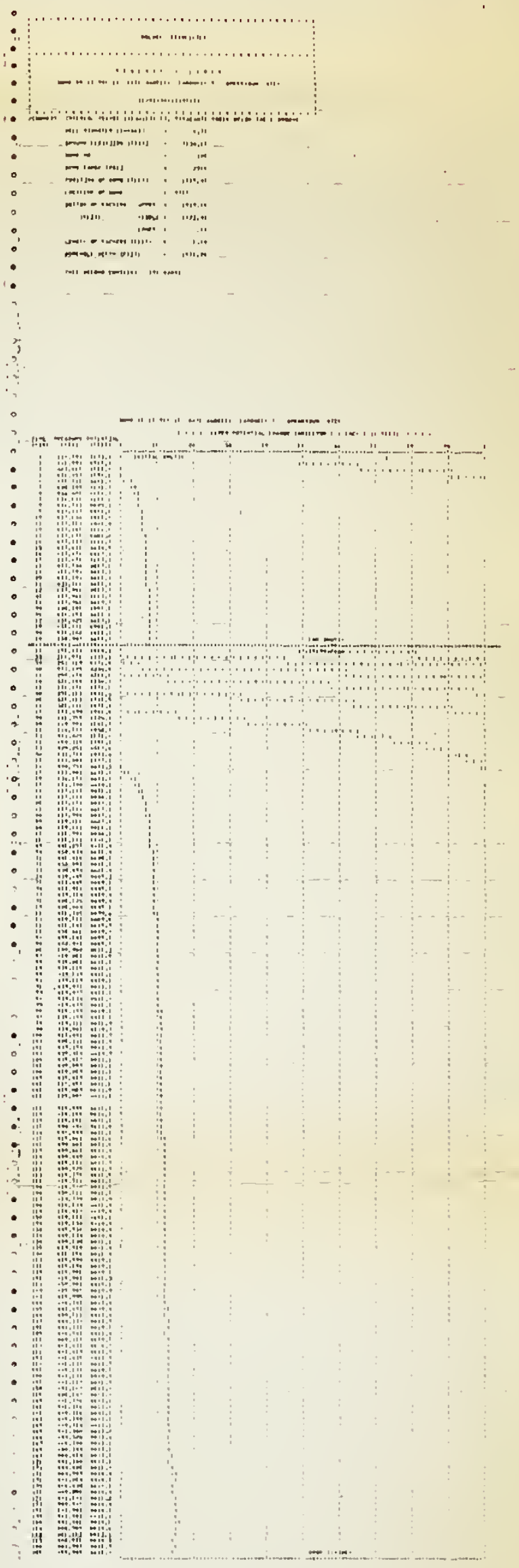
Formotion tested: Parachute Creek straddling B Groove.

Golder Associates

SG - 17 D.S.T. - 18



ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1047

NOTES:

1. Test oborted; rerun as D.S.T. 20

Golder Associates

C-b TRACT HYDROLOGY

Borehole no 17 Drill stem test no 19

Dote: Dec. 6, 1974 Interval tested. 1423-1470 ft.

Pressure gauges: Sperry Sun

Formotion tested Parachute Creek below the B Groove

SG-17 D.S.T.- 19

GOLDER ASSOCIATES

PROGRAM - CHRAP

BORE SG IT DST I9 DATT DADECTA CASADDECK P JOHNSTON STEM

03/11/75-02128131

/COMMENT INTERVAL TESTED 1423-1470 FT. PARACHUTT CREEK BELOW THE B GROOVE

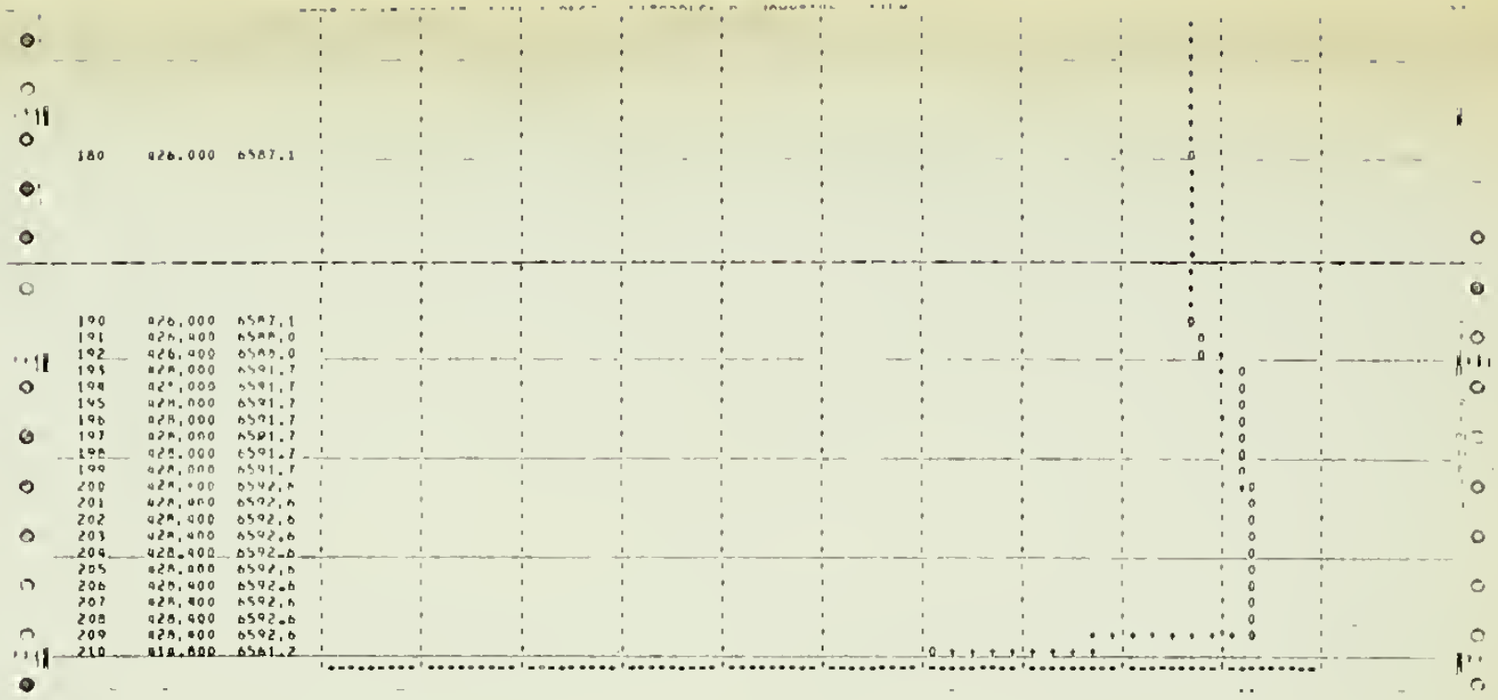
WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7056.00
BOMB NO.	=	A5010
BOMB RANGE (PSI)	=	1A00
POSITION OF BOMB (FEET)	=	1432.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS (FEET) UPPER	=	1419.00
MIDDLE	=	1423.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	1470.00

THIS RECORD CONTAINS 24 CARDS

HOWE SG 17 D31 19 DATE 06DEC78 CASPODECA P JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	915.600	6563.1
0	918.000	6564.9
0	91.800	5815.8
1	110.300	5858.5
2	117.500	5875.2
3	921.600	6576.9
4	922.000	6577.8
5	922.000	6577.8
6	922.000	6577.8
7	922.400	6578.8
8	922.800	6579.7
9	922.800	6579.7
10	922.800	6579.7
11	922.800	6579.7
12	922.800	6579.7
13	922.800	6579.7
14	922.800	6579.7
15	922.800	6579.7
20	922.800	6579.7
25	923.600	6581.5
30	923.600	6581.5
35	925.600	6586.2
37	925.600	6586.2
38	155.900	5963.8
39	214.700	6099.5
40	232.300	6140.1
41	251.500	6184.4
42	283.500	6258.2
43	311.800	6323.1
44	325.200	6354.5
45	341.800	6396.9
46	361.600	6403.1
47	348.800	6402.8
48	400.800	6528.9
49	413.600	6558.5
50	416.400	6564.9
51	417.600	6567.7
52	419.200	6571.4
53	420.400	6574.2
54	421.200	6576.0
55	422.000	6577.8
56	422.400	6578.8
57	422.400	6578.8
58	423.200	6580.6
59	423.200	6580.6
60	423.600	6581.5
70	423.600	6581.5
80	424.000	6582.5
90	424.000	6582.5
100	424.400	6583.4
110	424.800	6584.3
120	424.800	6584.3
130	424.800	6584.3
140	425.600	6586.2
150	425.600	6586.2
160	425.600	6586.2
170	426.000	6587.1



II B-1048

NOTES:

1. Test aborted and rerun as D.S.T. 20.

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 19

Dote: Dec. 6, 1974 Intervol tested: 1423-1470ft.

Pressure gouges: Johnston (Lower)

Formotion tested: Parachute Creek below the B Groove

Golder Associates

SG - 17 D.S.T. - 19

GOLDER ASSOCIATES

PROGRAM = CBBAP

HOME 96 17 OBT 20 DATE 06DEC79 CARDDICK & JOHNSTON STEM

03/11/75-15138135

/COMMENT INTERVAL TESTED 1423-1470 FT, PARACHUTE CREEK BELOW THE B GROOVE

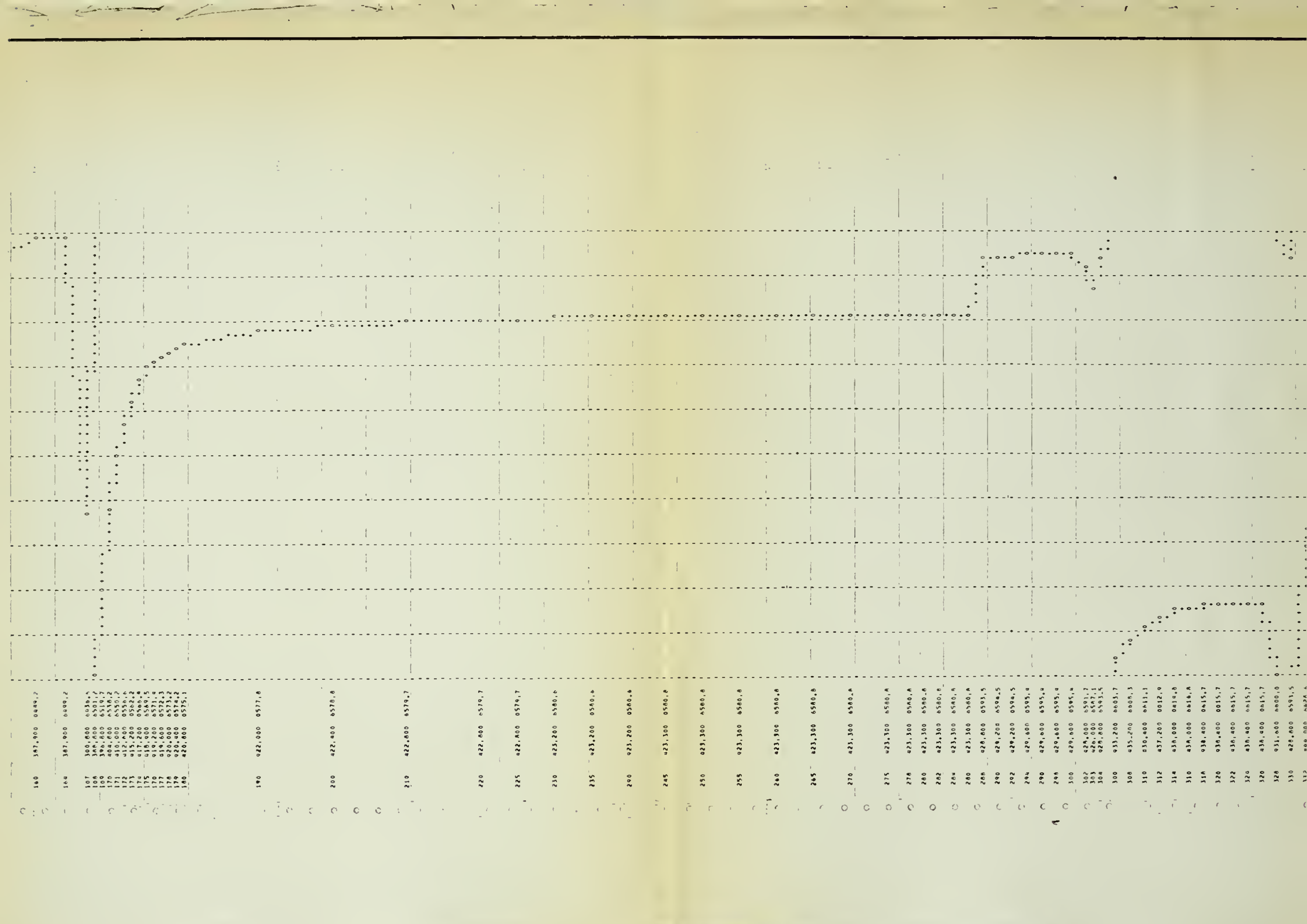
WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7034.00
BOMB NO.		=	A5010
BOMB RANGE (PSI)		=	1600
POSITION OF BOMB (FEET)		=	1432.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1419.00
	MIDDLE	=	1423.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1470.00

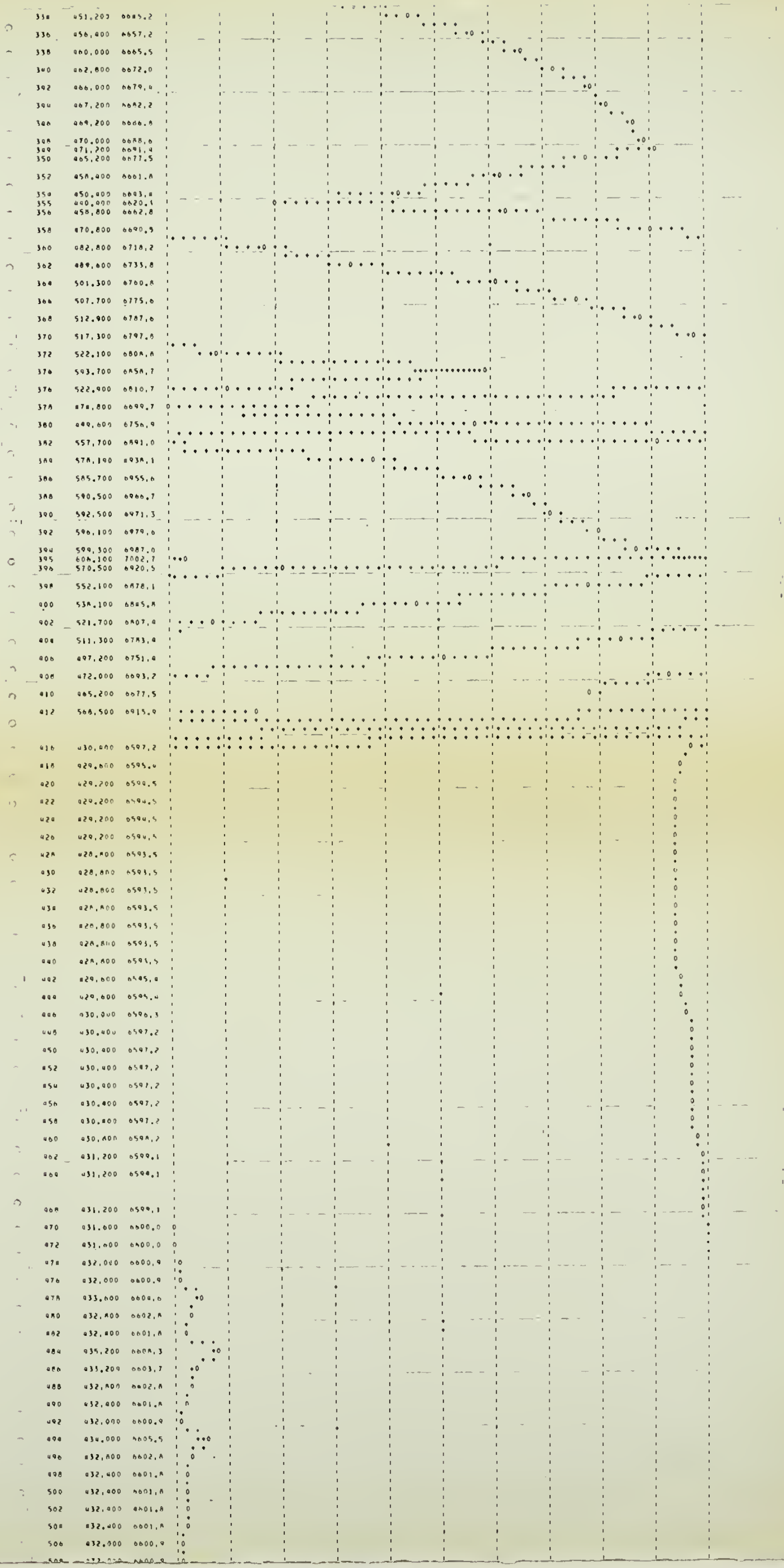
THIS RECORD CONTAINS 53 CARDS

BORE SG 17 051 20 DATE 06DEC74 CANODECH D JOHNSTON SIEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	417,600	6567.7
0	422,400	6577.1
0	72,300	5770.8
3	140,900	5940.9
4	186,700	6038.8
5	238,700	6154.8
6	239,500	6156.7
7	265,500	6216.7
8	274,700	6237.9
9	298,500	6292.4
10	317,900	6337.6
11	339,200	6386.8
12	350,000	6411.7
13	362,800	6441.2
14	372,800	6466.3
15	382,900	6488.5
16	394,000	6513.2
17	400,400	6528.0
18	403,200	6534.5
19	407,600	6544.6
20	412,000	6554.8
30	421,200	6576.0
40	422,000	6577.8
50	422,000	6577.8
60	422,080	6577.8
70	422,800	6579.7
80	422,800	6579.7
90	423,200	6580.6
100	423,200	6580.6
104	423,200	6580.6
108	399,800	6661.5
110	383,200	6488.3
111	384,800	6492.8
112	386,800	6498.8
113	387,200	6497.5
114	387,600	6498.5
115	387,600	6498.5
120	387,600	6498.5
125	388,000	6499.4
130	388,000	6498.4
135	388,000	6499.4
140	388,000	6498.4
145	388,000	6499.4
150	387,600	6498.5
155	386,600	6495.7

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336 456.400 6657.2
338 460.000 6665.5
340 462.800 6672.0
342 466.000 6679.4
344 467.200 6682.2
346 469.200 6686.8
348 470.000 6688.6
349 471.200 6691.4
350 465.200 6677.5
352 458.400 6661.8
354 450.400 6643.4
355 440.000 6620.1
356 458.800 6662.8
358 470.800 6690.5
360 482.800 6718.2
362 489.600 6735.8
364 501.300 6760.8
366 507.700 6775.6
368 512.900 6787.6
370 517.300 6797.8
372 522.100 6808.8
374 593.700 6858.7
376 522.900 6810.7
378 478.800 6699.7
380 449.600 6756.9
382 557.700 6891.0
384 578.100 6938.1
386 585.700 6955.6
388 590.500 6966.7
390 592.500 6971.3
392 596.100 6979.6
394 599.300 6987.0
395 604.100 7002.7
396 570.500 6920.5
398 552.100 6878.1
400 538.100 6845.8
402 521.700 6807.8
404 511.300 6783.8
406 497.200 6751.8
408 472.000 6693.2
410 465.200 6677.5
412 566.500 6915.9
416 430.800 6597.2
418 429.600 6595.8
420 429.200 6594.5
422 429.200 6594.5
424 429.200 6594.5
426 429.200 6594.5
428 428.800 6593.5
430 428.800 6593.5
432 428.800 6593.5
434 428.800 6593.5
436 428.800 6593.5
438 428.800 6593.5
440 428.800 6593.5
442 429.600 6595.8
444 429.600 6595.8
446 430.000 6596.3
448 430.400 6597.2
450 430.400 6597.2
452 430.400 6597.2
454 430.400 6597.2
456 430.400 6597.2
458 430.400 6597.2
460 430.400 6597.2
462 431.200 6599.1
464 431.200 6599.1
468 431.200 6599.1
470 431.600 6600.0
472 431.600 6600.0
474 432.000 6600.9
476 432.000 6600.9
478 433.600 6604.6
480 432.400 6602.8
482 432.400 6601.8
484 435.200 6608.3
486 433.200 6603.7
488 432.400 6602.8
490 432.400 6601.8
492 432.000 6600.9
494 434.000 6605.5
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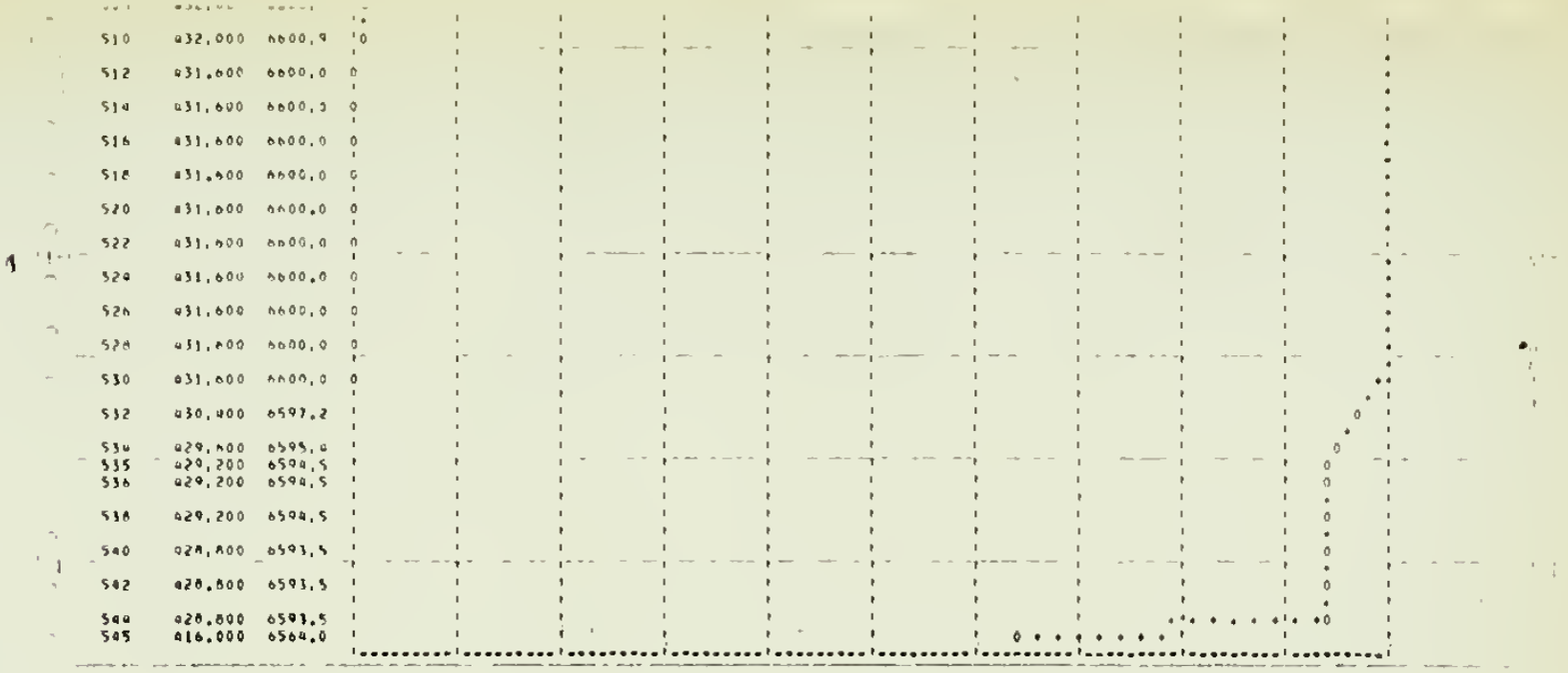
506 432.000 6600.9



II B-1049

NOTES:

1. Upper Johnston gauge malfunction during the test

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 20

Date: Dec. 6, 1974 Intervol tested: 1423-1470ft.

Pressure gouge: Johnston (Lower)

Formotion tested: Parachute Creek below the B Groove

Golder Associates

SG - 17 D.S.T. - 20

GOLDER ASSOCIATES

PROGRAM * CHBAP

BORE SG 17 051 22 DATE 100EC79 CANDDECK I JOHNSTON STEM

03/11/75-00100139

/COMMENT INTERVAL TESTED 1428-1522 FT, PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)		*	6.75
GROUND ELEVATION (FEET)		*	7036.00
BOMB NO.		*	A5009
BOMB RANGE (PSI)		*	1500
POSITION OF BOMB (FEET)		*	1911.00
LOCATION OF BOMB		*	SIIN
BOTTOM OF PACKERS (FEET)	UPPER	*	1920.00
	MIDDLE	*	1428.00
	LOWER	*	.00
LENGTH OF PACKERS (FEET)		*	2.00
BOREHOLE DEPTH (FEET)		*	1522.00

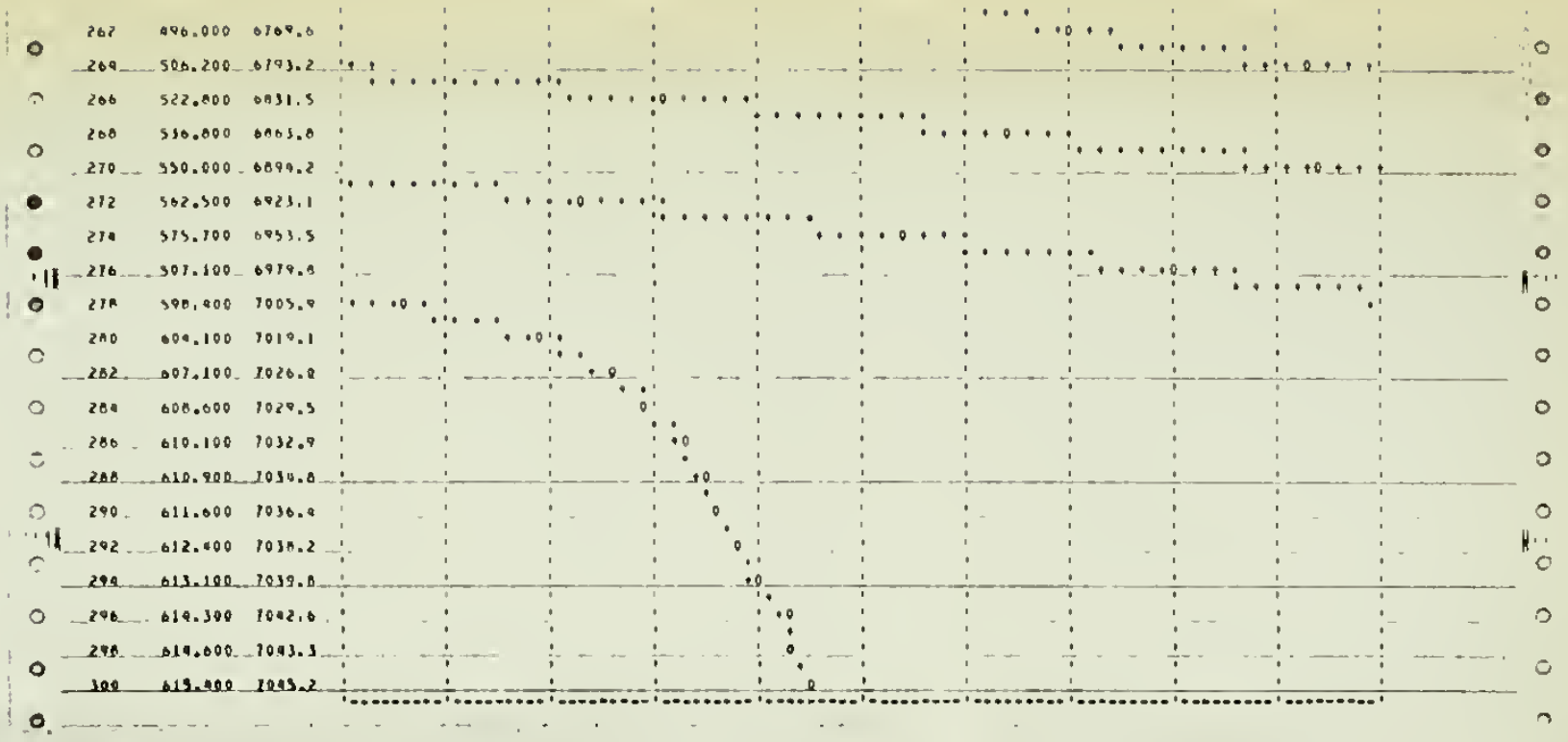
THIS RECORD CONTAINS 36 CARDS

BORE SG 17 DST 22 DATE 100EC79 CANDDECK I JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	911.300	6578.2	
0	923.400	6602.1	0
0	37.600	5711.8	0
2	42.500	5723.1	
3	412.500	6576.9	
4	417.000	6587.3	
5	418.500	6590.8	
6	419.300	6592.6	
7	419.600	6593.3	
8	920.900	6595.2	
9	920.800	6594.1	
10	921.200	6597.0	
11	921.500	6597.7	
12	921.500	6597.7	
13	421.900	6598.6	
14	421.900	6598.6	
15	921.900	6598.6	
16	421.900	6598.6	
17	921.900	6598.6	
18	922.300	6599.5	0
19	422.300	6599.5	0
20	422.300	6599.5	0
25	422.700	6600.5	0
30	922.700	6600.5	0
33	422.700	6600.5	0
35	423.800	6603.0	
37	929.600	6609.8	
38	60.000	5749.8	
39	90.500	5813.8	
40	119.300	5888.8	
41	129.000	5922.7	
42	142.300	5953.9	
43	155.500	5983.8	
44	167.200	6010.8	
45	178.200	6036.2	
46	188.400	6059.8	
47	199.700	6085.8	
48	209.900	6109.9	
49	219.400	6131.1	
50	229.200	6155.9	
51	236.700	6171.2	
52	295.800	6192.2	
53	258.100	6211.6	
54	263.200	6232.9	
55	271.100	6250.8	
56	277.900	6264.3	
57	284.700	6282.0	
58	291.900	6298.6	
59	298.300	6314.4	
60	309.900	6327.5	
61	310.800	6342.2	
62	316.500	0355.4	
63	322.100	6368.3	
64	327.100	6379.8	
65	332.400	6392.1	
66	337.300	6903.0	
67	342.200	6414.7	
68	346.700	6425.1	
69	351.200	6435.5	
70	356.600	6445.3	
71	356.400	6452.1	
72	362.200	6460.8	
73	365.600	6468.1	
74	369.400	6477.5	
75	372.000	6483.5	
76	374.700	6489.7	
77	377.300	6495.7	
78	380.000	6501.9	
79	382.600	6507.9	

82	389.800	6520.5
83	391.300	6528.0
84	393.200	6532.4
85	395.100	6536.8
86	396.600	6540.2
87	398.500	6544.6
88	400.000	6548.1
89	401.500	6551.5
90	402.300	6553.4
91	403.800	6556.8
92	404.900	6559.8
93	406.000	6561.9
94	407.200	6564.7
95	407.900	6566.3
96	409.100	6569.1
97	409.800	6570.7
98	410.600	6572.5
99	411.300	6574.2
100	412.100	6576.0
101	412.800	6577.6
102	413.200	6578.5
103	413.600	6579.5
104	414.800	6581.3
105	414.700	6582.8
106	415.100	6582.9
107	415.500	6583.8
108	415.900	6584.8
109	416.200	6585.5
110	416.200	6585.5
120	418.500	6590.8
130	419.800	6593.3
140	420.800	6596.1
150	421.900	6598.6
160	422.300	6599.5
170	423.400	6602.1
180	423.800	6603.0
190	423.000	6603.0
200	423.800	6603.0
210	423.800	6603.0
220	423.800	6603.0
227	423.800	6603.0
230	432.500	6623.1
232	437.400	6634.4
234	441.900	6644.8
236	446.100	6654.5
238	449.100	6661.4
240	452.100	6668.3
242	456.800	6679.5
244	457.400	6680.5
246	461.600	6690.2
248	466.500	6701.5
250	471.800	6713.8
252	476.300	6724.2
254	480.900	6734.8
256	484.600	6743.3
258	488.400	6752.1



II B-1050

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 22

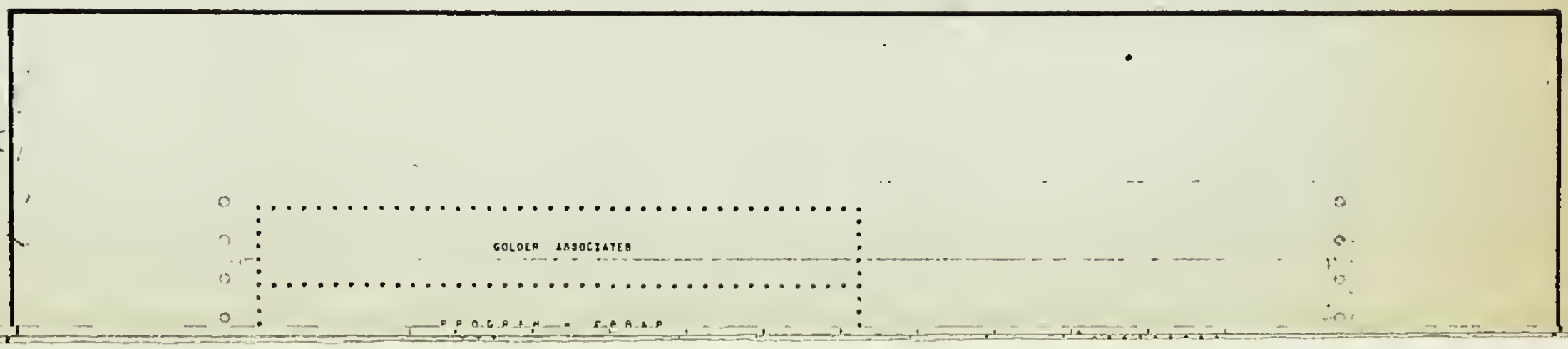
Date: Dec. 10, 1974 Interval tested: 1428-1522ft

Pressure gauges: Johnston (Upper)

Formation tested: Parachute Creek below the B Groove

Golder Associates

SG - 17 D.S.T. - 22


GOLDER ASSOCIATES

BORE SG 17 DST 23 DATE 12DEC74 CARDDECK U JOHNSTON STEM

03/11/75-15:37:52

/COMMENT INTERVAL TESTED 1512-1572 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	45009
BOMB RANGE (PSI)	=	1500
POSITION OF BOMB (FEET)	=	1497.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS UPPER	=	1508.00
(FEET) MIDDLE	=	1512.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	1572.00

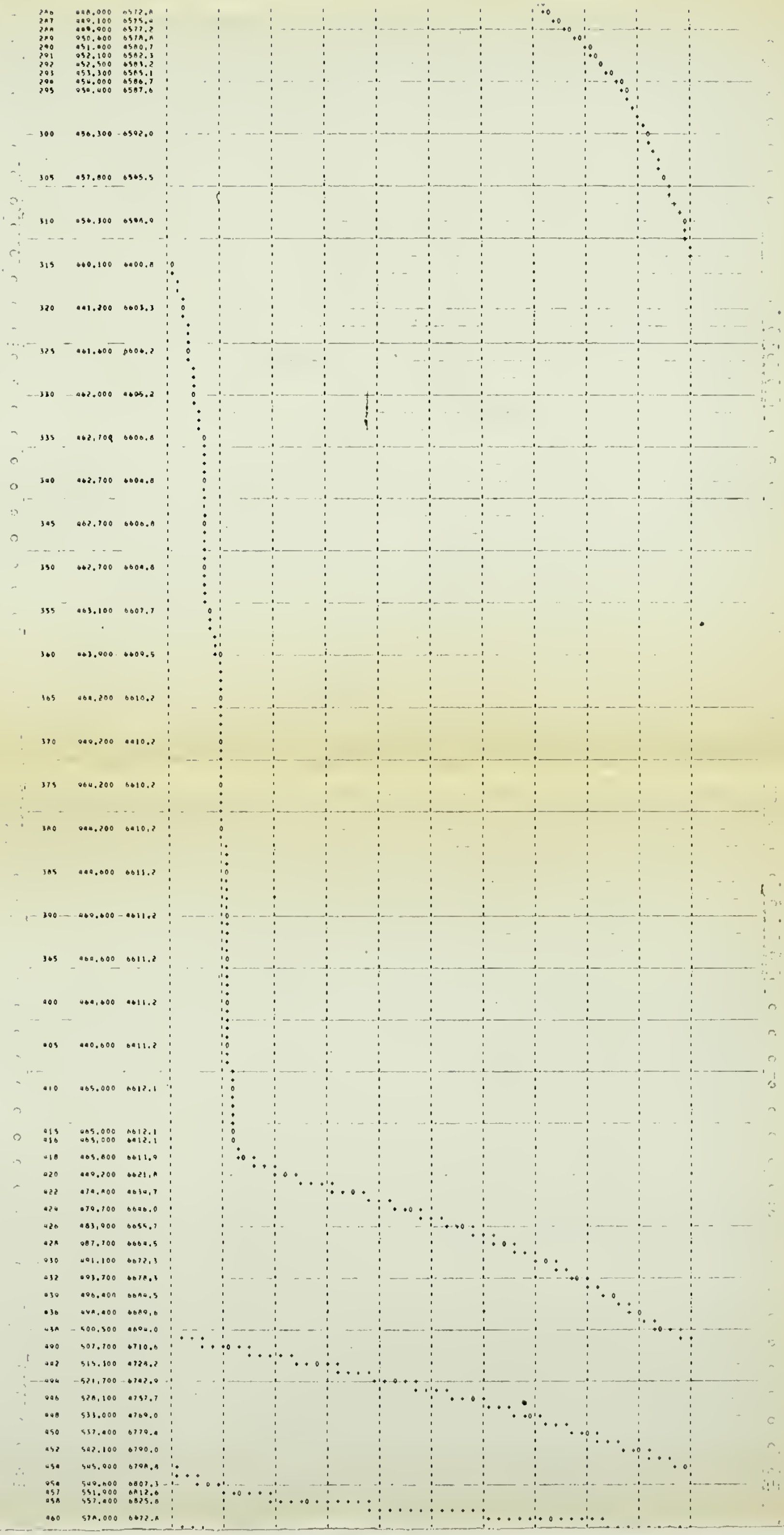
THIS RECORD CONTAINS 61 CARDS

BORE SG 17 DST 23 DATE 12DEC74 CARDDECK U JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	440.100	6558.6
0	461.200	6603.3
0	65.200	5889.5
3	129.400	5837.6
4	417.400	6502.2
5	438.200	6550.2
6	445.300	6566.6
7	448.700	6574.5
8	451.400	6580.7
9	452.900	6584.2
10	454.000	6586.7
11	454.800	6588.5
12	455.900	6591.1
13	456.700	6592.9
14	457.100	6593.8
15	457.400	6594.5
16	457.800	6595.5
17	457.800	6595.5
18	458.200	6596.4
19	458.600	6597.3
20	458.900	6598.0
21	458.800	6598.0
22	458.900	6598.0
23	459.300	6598.9
24	459.300	6598.9
25	459.300	6598.9
26	459.300	6598.9
27	460.100	6600.8
28	460.100	6600.8
29	460.100	6600.8
30	460.500	6601.7
31	460.500	6601.7
32	460.800	6602.4
33	460.800	6602.4
34	460.800	6602.8
35	463.500	6608.8
36	462.700	6606.8
37	462.700	6606.8
38	462.700	6606.8
39	109.100	5883.1
40	167.260	5924.8
41	181.200	5957.2
42	193.300	5985.1
43	205.800	6013.8
44	219.000	6040.8
45	228.800	6061.0
46	239.800	6092.8
47	250.300	6110.6
48	258.700	6136.0
49	268.900	6150.5
50	278.300	6181.2
51	285.900	6199.8
52	294.600	6218.8
53	302.500	6237.1
54	309.700	6253.7
55	316.500	6269.8
56	323.700	6286.0
57	329.700	6299.8
58	336.100	6314.6
59	342.200	6328.7
60	347.500	6340.9
61	352.800	6353.2
62	358.800	6367.0
63	363.700	6378.3
64	368.300	6388.9
65	372.800	6399.3
66	377.300	6409.7
67	381.100	6418.5
68	385.900	6427.2
69	388.700	6431.8
70	391.700	6442.9
71	395.100	6450.8
72	398.500	6458.6
73	401.500	6465.5
74	404.200	6471.8
75	407.200	6478.7
76	409.800	6484.7
77	412.500	6490.9
78	414.700	6496.0
79	417.400	6502.2
80	419.300	6506.6
81	421.200	6511.0
82	423.400	6516.1
83	424.900	6519.5
84	427.200	6524.8
85	428.700	6528.3
86	430.600	6532.7
87	432.100	6536.2
88	433.600	6539.6
89	434.800	6542.4
90	436.300	6545.8
91	437.800	6549.3
92	438.400	6551.8
93	440.100	6554.6
94	441.200	6557.2
95	441.900	6558.8
96	442.700	6560.6
97	443.800	6563.2
98	445.800	6565.9
99	445.700	6567.8
100	446.100	6568.7
101	447.200	6571.0
102	447.600	6571.8
103	448.400	6573.8
104	448.100	6575.8
105	448.900	6577.2

110	452.100	6502.3
115	454.400	6587.6
120	455.500	6540.2
125	457.100	6593.8
130	458.200	6596.4
135	458.600	6598.0
140	460.100	6600.8
145	460.000	6602.4
150	461.200	6603.3
155	461.600	6604.2
160	461.600	6604.2
165	463.500	6608.6
170	464.200	6610.2
175	465.400	6613.0
180	465.400	6611.0
185	465.400	6613.0
190	465.400	6613.0
193	465.400	6613.0
194	515.600	6728.0
195	457.100	6593.8
197	508.700	6682.2
200	605.300	6670.3
205	406.200	6671.0
210	400.200	6671.8
215	403.400	6669.9
220	403.000	6669.0
225	402.600	6668.1
230	402.400	6668.1
235	402.600	6668.1
240	402.600	6668.1
245	402.400	6668.1
250	402.600	6668.1
252	402.400	6668.1
253	367.500	6587.1
254	374.700	6601.7
255	383.000	6622.8
256	387.500	6633.2
257	392.000	6644.5
258	397.700	6656.8
259	400.800	6661.9
260	404.500	6672.5
261	406.300	6681.2
262	411.000	6687.5
263	413.400	6695.1
264	418.100	6701.8
265	420.000	6708.2
266	422.700	6714.5
267	424.900	6719.5
268	426.800	6723.9
269	429.100	6729.2
270	430.800	6732.7
271	432.700	6735.7
272	433.800	6739.6
273	434.800	6742.4
274	436.300	6745.8
275	437.000	6747.5
276	438.200	6750.2
277	439.300	6752.8
278	440.800	6756.2
279	441.400	6758.8
280	443.500	6762.5
281	444.200	6766.1
282	445.300	6766.6
283	446.500	6769.4
284	447.800	6771.9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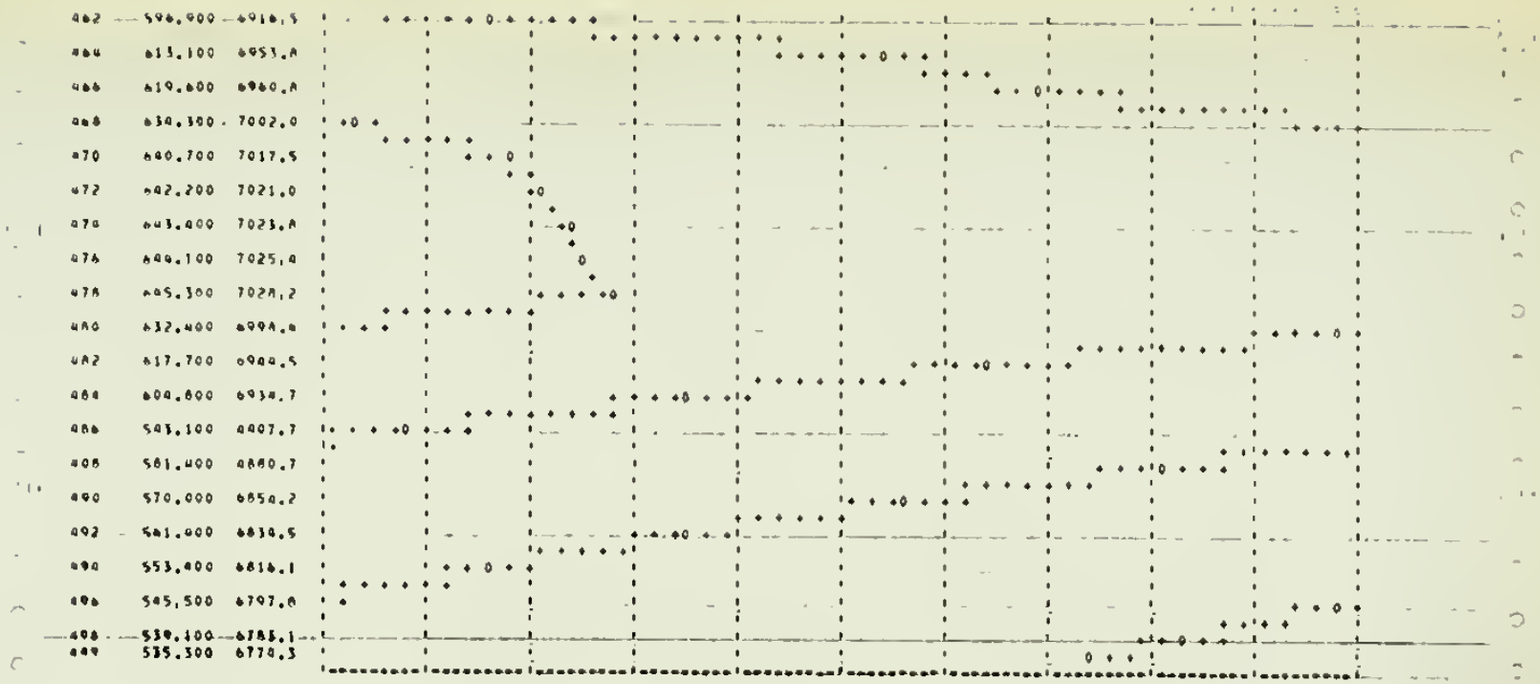
330 462.000 6605.2
335 462.700 6606.8
340 462.700 6604.8
345 462.700 6606.8
350 462.700 6604.8
355 463.100 6607.7
360 463.900 6609.5
365 464.200 6610.2
370 949.200 6610.2
375 964.200 6610.2
380 964.200 6610.2
385 464.600 6611.2
390 469.600 6611.2
395 464.600 6611.2
400 464.600 6611.2
405 460.600 6611.2
410 465.000 6612.1
415 465.000 6612.1
416 465.000 6612.1
418 465.800 6611.9
420 469.200 6621.8
422 474.800 6634.7
424 479.700 6646.0
426 483.900 6655.7
428 987.700 6664.5
430 491.100 6672.3
432 493.700 6678.3
434 496.400 6684.5
436 498.400 6689.6
438 500.500 6694.0
440 507.700 6710.6
442 515.100 6728.2
444 521.700 6742.9
446 528.100 6757.7
448 533.000 6769.0
450 537.400 6779.4
452 542.100 6790.0
454 545.900 6798.8
456 549.600 6807.3
457 551.900 6812.6
458 557.400 6825.8
460 578.000 6872.8



II B-1051

NOTES:

1. Lower Johnston gauge malfunction during test.

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 23

Date: Dec. 12, 1974 Interval tested: 1514-1572 ft.

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek below the B Groove.

SG - 17 D.S.T. - 23

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE SG 17 OST 25 DATE 15DEC76 CARDDECK W JOHNSTON STEM

10/02/75-16:03:05

/COMMENT INTERVAL TESTED 1618-1670 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)		6.75
GROUND ELEVATION (FEET)		7036.00
BOMB NO.		32342
BOMB RANGE (PSI)		2800
POSITION OF BOMB (FEET)		1620.00
LOCATION OF BOMB		STEM
BOTTOM OF PACKERS (FEET)	UPPER	1614.00
	MIDDLE	1618.00
	LOWER	.00
LENGTH OF PACKERS (FEET)		2.00
BOREHOLE DEPTH (FEET)		1670.00

THIS RECORD CONTAINS 79 CARDS

BORE SG 17 OST 25 DATE 15DEC76 CARDDECK W JOHNSTON STEM

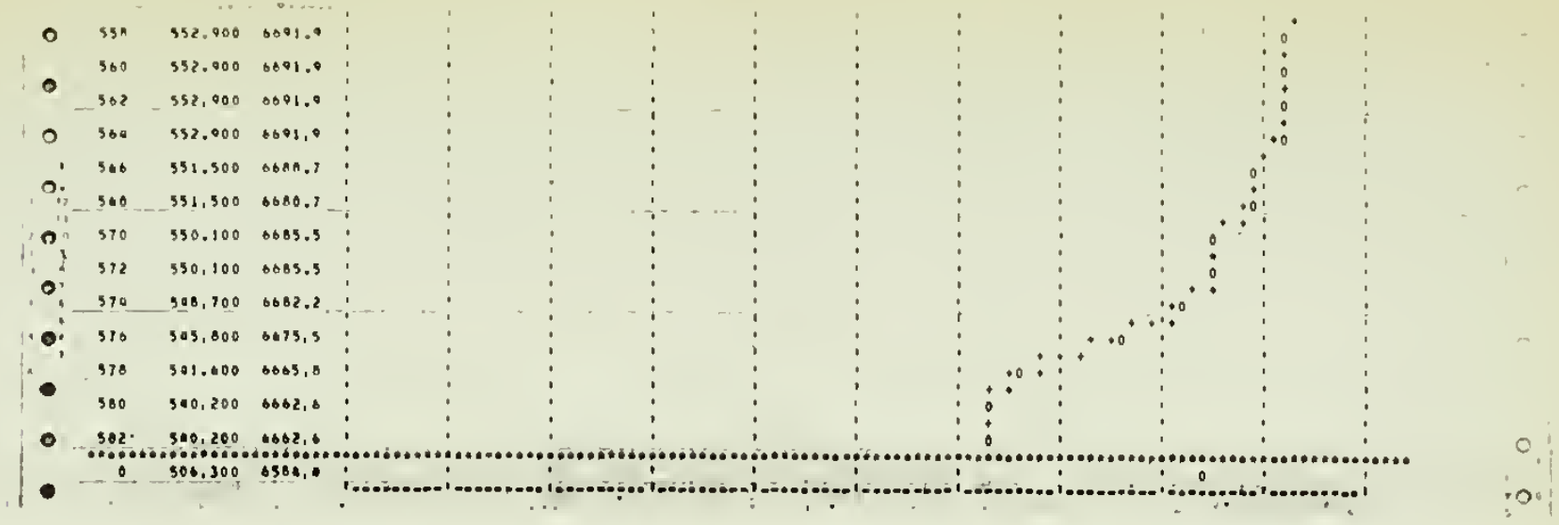
WATER POTENTIAL CHANGE INDICATOR (I INCH = 10 FEET)

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	500.700	6571.5
0	528.500	6635.6
0	36.700	5500.7
1	48.600	5523.5
2	50.700	5556.1
3	67.700	5572.2
4	395.000	6304.5
5	475.300	6512.8
6	496.500	6561.8
7	501.500	6577.9
8	509.200	6591.1
9	513.000	6600.8
10	514.800	6604.0
11	516.200	6607.2
12	519.000	6613.7
13	520.400	6616.9
14	520.400	6616.9
15	521.900	6620.4
16	523.300	6623.6
17	523.300	6623.6
18	523.300	6623.6
19	523.300	6623.6
20	524.700	6626.8
21	524.700	6626.8
22	524.700	6626.8
23	524.700	6626.8
24	524.700	6626.8
25	526.100	6630.1
202	881.500	7516.8

27	526,100	6630,1
28	527,500	6633,3
29	527,500	6633,3
30	527,500	6633,3
31	527,500	6633,3
32	527,500	6633,3
33	527,500	6633,3
34	527,500	6633,3
35	531,700	6643,0
36	531,700	6643,0
37	70,500	5578,7
38	112,800	5676,3
39	128,800	5712,3
40	135,400	5728,5
41	145,300	5751,3
42	155,200	5774,2
43	159,400	5783,8
44	165,000	5796,8
45	172,100	5813,2
46	177,700	5826,1
47	182,000	5836,0
48	187,600	5849,9
49	193,200	5861,8
50	198,800	5875,0
51	203,100	5888,7
52	208,700	5897,6
53	213,000	5907,5
54	218,600	5920,5
55	224,300	5933,6
56	227,100	5940,1
57	231,300	5950,8
58	237,000	5962,9
59	241,200	5972,6
60	245,400	5982,3
61	248,700	5992,2
62	253,000	6001,0
63	256,700	6008,4
64	260,000	6016,1
65	266,600	6031,2
66	269,900	6037,7
67	273,600	6047,4
68	277,900	6057,3
69	280,700	6063,8
70	289,000	6073,5
71	289,100	6083,2
72	292,000	6088,4
73	296,800	6096,3
74	299,000	6106,0
75	303,200	6115,7
76	306,100	6122,4
77	308,900	6128,6
78	313,100	6138,5
79	315,900	6145,0
80	318,800	6151,7
81	323,000	6161,4
82	326,000	6168,6
83	327,200	6171,1
84	331,500	6181,0
85	339,300	6187,5
86	337,100	6193,9
87	339,900	6200,9
88	340,100	6210,1
89	345,600	6213,5
90	348,900	6220,0
92	350,000	6232,9
94	350,700	6296,1
96	365,300	6259,0
98	370,900	6271,9
100	373,800	6278,6
102	370,400	6291,5
104	385,000	6304,5
106	380,300	6319,8
108	393,500	6329,1
110	396,300	6330,5
112	900,600	6300,5
113	400,800	6350,2
116	409,000	6359,8
118	913,300	6369,8
120	916,100	6376,2
122	918,900	6382,7
124	923,100	6192,8
126	426,000	6399,1
128	428,800	6405,5
130	433,000	6415,2
132	435,800	6421,7
134	938,600	6428,2
136	940,100	6931,8
138	942,900	6938,1
140	945,700	6944,5
142	948,500	6451,0
144	451,300	6457,5
146	452,700	6960,7
148	455,600	6467,0
150	458,900	6973,8
152	959,800	6477,1
150	962,600	6983,5
156	965,900	6990,0
158	966,900	6993,5
160	968,300	6996,7
162	971,100	6503,2
164	972,500	6506,4
166	973,000	6500,6
168	975,300	6512,8
170	978,100	6519,3
172	981,000	6526,0
174	982,400	6529,2
176	985,200	6535,7
178	988,000	6542,2
180	989,400	6545,0
182	990,400	6545,9
189	990,800	6598,6
186	992,200	6551,8
187	992,200	6551,8
188	517,600	6610,5
189	580,200	6662,6
190	986,900	6693,5
192	998,500	6451,0
193	992,900	6438,1
194	992,900	6936,1
196	992,900	6938,1
198	992,000	6938,1
200	991,500	6930,6

204	041.500	6034.8	
206	041.500	6034.8	
208	042.900	6038.1	
210	042.900	6038.1	
212	042.900	6038.1	
214	040.300	6001.3	
216	041.500	6034.8	
218	041.500	6034.8	
220	041.500	6034.8	
222	041.500	6034.8	
224	041.500	6034.8	
226	041.500	6034.8	
228	041.500	6034.8	
230	041.500	6034.8	
232	041.500	6034.8	
234	041.500	6034.8	
236	041.500	6034.8	
238	037.200	6024.9	
240	035.800	6021.7	
242	035.800	6021.7	
244	035.800	6021.7	
246	035.800	6021.7	
248	035.800	6021.7	
250	035.800	6021.7	
251	035.800	6021.7	
252	016.700	6373.0	
254	020.300	6385.9	
256	026.500	6345.6	
258	028.800	6005.5	
260	033.000	6015.2	
262	037.200	6024.9	
264	040.100	6031.6	
266	042.900	6038.1	
268	045.700	6000.5	
270	048.500	6051.0	
272	051.300	6057.5	
274	054.200	6064.2	
276	057.000	6070.6	
278	059.800	6077.1	
280	062.600	6083.5	
282	064.000	6086.8	
284	065.400	6090.0	
286	068.300	6096.7	
288	071.100	6103.2	
290	072.500	6106.4	
292	073.600	6109.6	
294	076.700	6116.1	
296	078.100	6119.3	
298	079.500	6122.5	
300	081.000	6126.0	
302	082.400	6129.2	
304	085.200	6135.7	
306	086.600	6138.6	
308	088.000	6142.2	
310	089.400	6145.0	
312	090.800	6148.6	
314	092.200	6151.8	
316	093.700	6155.3	
318	093.700	6155.3	
320	095.100	6158.5	
322	096.500	6161.8	
324	097.900	6165.0	
326	099.300	6168.2	
328	099.300	6168.2	
330	100.700	6171.5	
332	100.700	6171.5	
334	102.100	6174.7	
336	102.100	6174.7	
338	103.500	6177.9	
340	104.900	6181.2	
342	106.300	6184.4	
344	107.800	6187.8	
346	107.800	6187.8	
348	107.800	6187.8	
350	109.200	6191.1	
352	109.200	6191.1	
354	110.600	6194.3	
356	110.600	6194.3	
358	110.600	6194.3	
360	110.600	6194.3	
362	112.000	6197.5	
364	112.000	6197.5	
366	113.400	6200.8	
368	113.400	6200.8	
370	113.400	6200.8	
372	114.800	6204.0	
374	114.800	6204.0	
376	119.000	6213.7	
378	126.100	6230.1	

380	531.700	6683.0	
382	536.000	6682.8	
384	540.200	6682.6	
386	540.400	6672.3	
388	550.100	6685.5	
390	554.300	6685.2	
392	556.500	6704.8	
393	556.500	6704.8	
394	567.000	6726.5	
396	578.300	6750.5	
398	589.600	6776.8	
400	598.000	6796.0	
402	606.500	6815.6	
404	613.500	6831.8	
406	622.000	6851.4	
408	629.000	6867.5	
410	637.500	6887.2	
412	644.600	6903.5	
414	668.500	6958.7	
416	691.100	7010.8	
418	705.200	7043.4	
420	705.200	7043.4	
422	706.600	7046.6	
424	706.200	7045.7	
426	708.000	7044.8	
428	708.000	7049.8	
430	708.000	7049.8	
432	708.000	7049.8	
434	702.400	7036.4	
436	693.900	7017.5	
438	688.700	7007.6	
440	688.100	6998.7	
442	678.400	6981.5	
444	674.200	6971.8	
446	668.500	6958.7	
448	664.300	6949.0	
450	660.100	6939.3	
452	654.400	6926.2	
454	651.600	6919.7	
456	647.400	6910.0	
458	643.200	6900.3	
460	638.400	6890.4	
462	634.700	6880.7	
464	631.400	6874.2	
466	629.000	6867.5	
468	624.800	6857.8	
470	622.000	6851.4	
472	619.200	6844.9	
474	616.400	6838.5	
476	613.500	6831.8	
478	610.700	6825.3	
480	609.300	6822.1	
482	606.500	6815.6	
484	603.700	6809.2	
486	600.800	6802.5	
488	599.400	6799.2	
490	596.600	6792.8	
492	595.200	6788.5	
494	591.000	6779.8	
496	591.000	6774.8	
498	588.100	6773.2	
500	586.700	6769.9	
502	583.900	6763.5	
504	582.500	6760.2	
506	581.100	6757.0	
508	579.700	6753.8	
510	578.300	6750.5	
512	576.900	6747.3	
514	575.500	6744.1	
516	574.000	6740.6	
518	572.600	6737.4	
520	571.200	6734.2	
522	569.800	6730.9	
524	568.400	6727.7	
526	567.000	6724.5	
528	565.600	6721.2	
530	564.200	6718.0	
532	564.200	6718.0	
534	562.800	6714.8	
536	562.800	6714.8	
538	561.300	6711.3	
540	559.400	6708.1	
542	559.900	6708.1	
544	559.500	6709.8	
546	557.100	6701.6	
548	557.100	6701.6	
550	555.700	6698.4	
552	555.700	6698.4	
554	555.700	6698.4	
556	554.300	6695.2	



II B-1052

NOTES:

1. Upper Johnston gauge malfunction during the test.

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 25

Date: Dec. 15, 1974 Intervol tested: 1618 - 1670 ft.

Pressure gauge: Johnston (Lower)

Formation tested: Parachute Creek below the B Groove

SG - 17 D.S.T. - 25

GOLDEN ASSOCIATES

PROGRAM = CBHAP

BOHR SG 17 DST 26 DATE 17DEC74 CARDDECK X JOHNSTON STEM

03/13/75-10454154

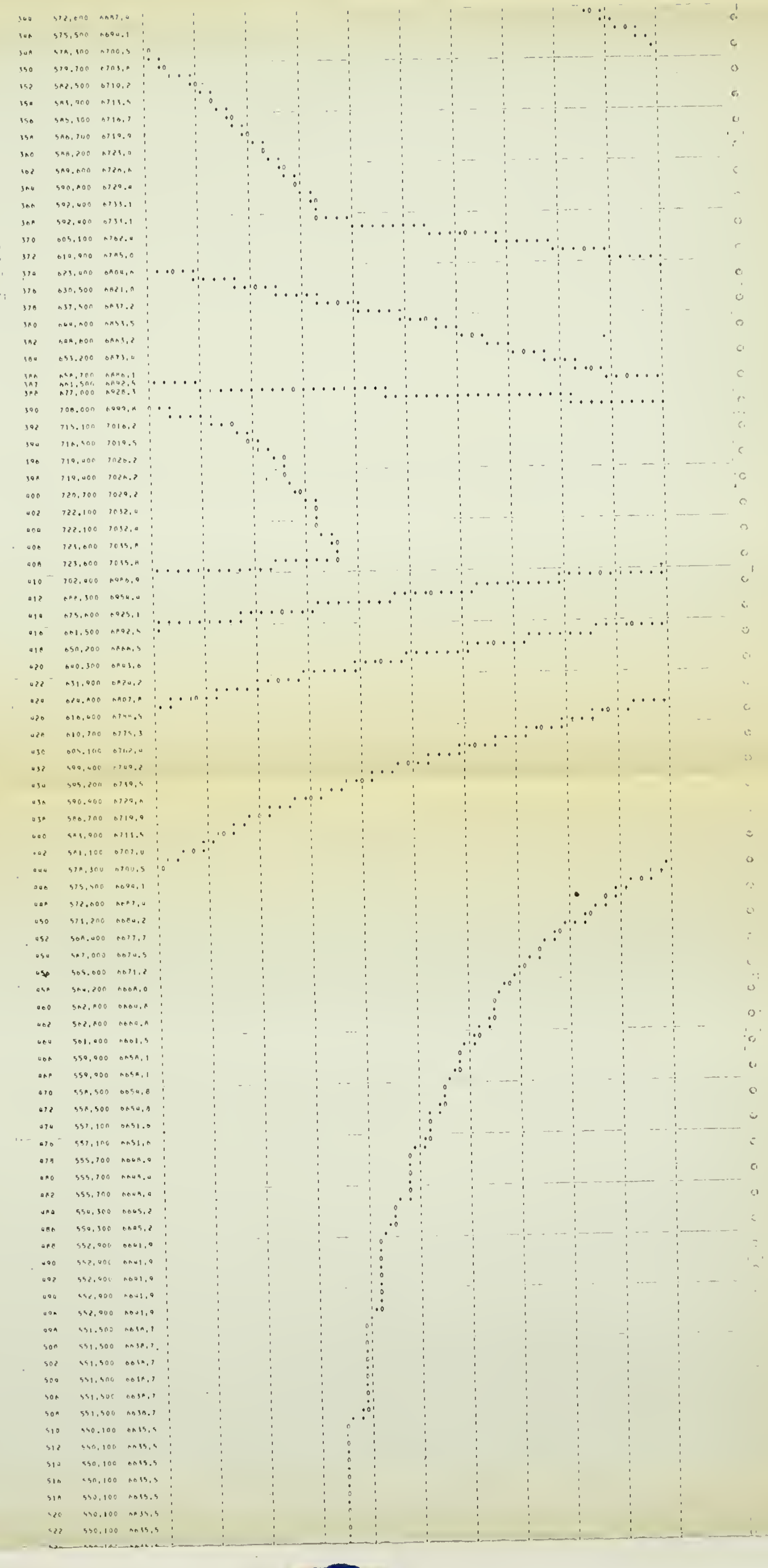
WELL DIAMETER (INCHES)	=	8.75
GROUND ELEVATION (FEET)	=	7038.00
BOMB NO.	=	32342
BOMB RANGE (PSI)	=	2800
POSITION OF BOMB (FEET)	=	1870.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS UPPER	=	1660.00
(FEET) MIDDLE	=	1660.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	1720.00

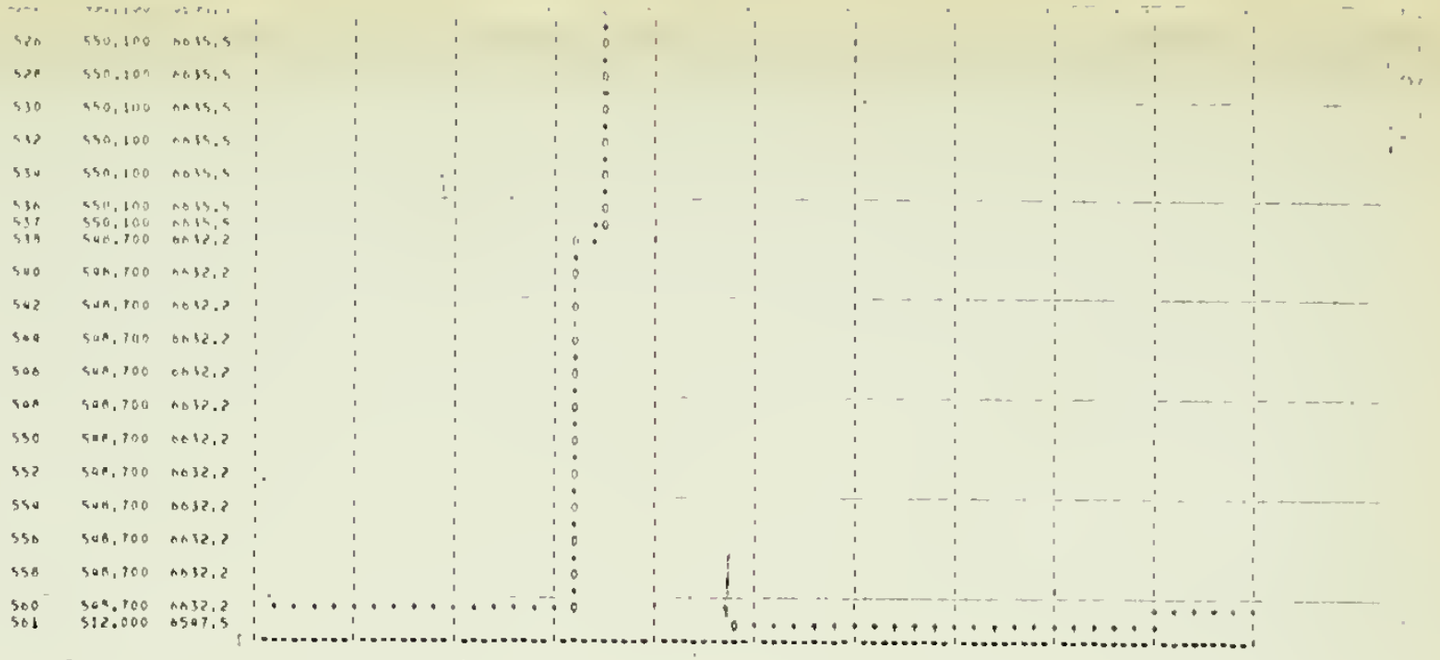
THIS RECORD CONTAINS 69 CARDS

BORE 56 17 DST 26 DATE 17DEC14 CORRDEC4 X JOHNSTON STEM

TIME (MIN)	PRESSURE (PSIA)	POTENTIAL (FEET)	• • • • WATER POTENTIAL CHANGE INDICATION 1 INCH = 10 FEET) • • • • 0 10 20 30 40 50 60 70 80 90 0
0	521.900	6570.4	
0	538.800	6609.6	
0	99.000	5640.0	
1	98.700	5581.4	
2	145.500	5701.3	
3	153.700	5720.7	
4	473.900	6451.6	
5	497.900	6515.0	
6	510.600	6548.1	
7	516.200	6561.2	
8	521.800	6570.2	
9	524.100	6578.4	
10	521.500	6561.1	
11	528.900	6586.5	
12	531.700	6593.0	
13	531.700	6593.0	
14	531.100	6596.2	
15	534.600	6599.7	
16	534.600	6599.7	
17	535.900	6602.7	
18	535.900	6602.7	
19	535.900	6602.1	
20	535.900	6602.7	
21	535.900	6602.7	
22	537.400	6606.2	
23	538.800	6609.6	
24	538.800	6609.6	
25	538.800	6609.6	
26	538.800	6609.6	
27	538.800	6609.6	
28	538.800	6609.6	
29	538.800	6609.6	
30	538.800	6609.6	
31	538.800	6609.6	
32	540.200	6612.6	
33	540.200	6612.6	
34	540.200	6612.6	
35	541.600	6615.6	
36	100.900	5917.1	
37	199.000	5902.2	
38	218.400	5940.8	
39	230.100	5908.2	
40	253.900	5951.0	
41	252.500	5946.7	
42	262.100	6017.0	
43	299.000	6058.0	
44	310.300	6087.1	
45	322.900	6111.2	
46	337.100	6143.9	
47	345.600	6161.5	
48	355.400	6188.2	
49	366.100	6215.5	
50	378.000	6245.3	
51	385.000	6256.5	
52	390.900	6277.3	
53	403.000	6298.9	
54	409.000	6309.4	
55	418.900	6312.2	
56	424.500	6315.8	
57	431.000	6317.0	
58	437.200	6329.9	
59	442.900	6350.1	
60	450.000	6400.5	
61	451.200	6410.2	
62	458.300	6423.8	
63	464.000	6430.8	
64	468.900	6443.5	
65	471.100	6455.2	
66	474.200	6460.1	
67	479.50	6472.5	
68	482.[illegible]	6479.2	
69	486.600	6484.8	
70	488.800	6495.6	
71	492.200	6501.4	
72	495.100	6508.5	
73	497.500	6511.5	
74	499.300	6511.2	
75	502.700	6521.0	
76	504.500	6527.0	
77	506.300	6530.6	
78	507.[illegible]	6537.1	
79	509.200	6541.3	
80	512.000	6547.5	
81	513.[illegible]	6550.8	
82	514.800	6554.0	
83	516.200	6557.2	
84	517.400	6560.5	
85	519.000	6563.7	
86	520.900	6568.0	
87	520.400	6568.9	
88	521.900	6570.0	
89	521.900	6570.0	
90	523.300	6573.0	
95	527.500	6583.1	
100	530.300	6589.8	
105	533.100	6596.2	
110	534.600	6599.7	
115	535.900	6602.7	
120	535.900	6602.1	
125	537.400	6606.2	
130	537.900	6606.2	
135	538.800	6609.6	
140	500.200	6612.6	
145	540.200	6612.6	
150	540.200	6612.6	
155	540.200	6612.6	
160	540.200	6612.6	

170	541,600	6615.8
175	543.000	6619.1
180	544.400	6622.3
185	544.400	6622.3
190	544,400	6622.3
194	544,000	6622.3
195	543,900	6713.5
197	543,500	6682.5
200	542,400	6679.2
205	540,900	6675.8
210	540.900	6675.8
215	540.900	6675.8
220	539,500	6672.5
225	539,500	6672.5
230	539.500	6672.5
235	539,500	6672.5
240	539,500	6672.5
245	539,500	6672.5
250	539,500	6672.5
255	539,500	6672.5
256	542,900	6588.1
257	547,100	6587.4
258	555,600	6617.0
259	564,000	6618.2
260	571,100	6651.2
261	575,300	6662.5
262	579,600	6672.0
263	585,200	6685.7
264	593,700	6692.2
265	592,200	6501.4
266	596,500	6511.8
267	597,000	6512.9
268	599,200	6521.5
269	601,500	6527.0
270	506,300	6530.0
271	607,800	1519.4
272	509,200	6541.1
273	512,000	6547.5
274	513,600	6550.8
275	516,200	6556.0
276	516,200	6557.2
277	517,800	6560.5
278	519,100	1563.7
279	519,000	6561.2
280	520,600	6566.9
281	521,900	6570.3
282	523,300	6573.6
283	523,100	6571.6
284	524,700	6578.4
285	526,100	6580.1
286	526,100	6580.1
287	527,500	6583.1
288	527,900	6584.5
289	528,900	6586.5
290	528,900	6586.5
295	531,700	6593.0
300	534,600	6599.7
305	536,000	6602.9
310	537,900	6606.2
315	538,800	6609.4
320	538,800	6609.4
325	538,800	6609.4
330	538,800	6609.4
332	547,300	6629.0
334	552,900	6641.9
336	558,500	6654.8
338	562,800	6664.8
340	566,900	6674.2
342	569,800	6680.9





II B-1053

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 26

Date: Dec. 17, 1974 Interval tested: 1668 - 1720 ft.

Pressure gauge: Johnston (Lower)

Formotion tested: Parachute Creek below the B Groove

SG - 17 D.S.T. - 26

GOLDER ASSOCIATES

PROGRAM - CRRAP

BORE 3G 17 DST 2A DATE 17DEC74 CARDDECK X JOHNSTON STEM

03/11/75-15:41:01

/COMMENT INTERVAL TESTED 1668-1720 FT, PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	4633M
BOMB RANGE (PSI)		=	2650
POSITION OF BOMB (FEET)		=	1643.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1664.00
	MIDDLE	=	1668.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1720.00

THIS RECORD CONTAINS 69 CARDS

BORE SG 17 057 26 0476 17DEC78 C*90DECK * JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	517.800	6587.9
0	533.600	6624.4
0	27.500	5458.5
1	41.200	5580.8
2	127.100	5886.3
3	271.300	6019.1
4	302.100	6102.5
5	509.900	6569.7
6	516.500	6584.9
7	519.200	6591.2
8	523.100	6600.2
9	525.700	6606.2
10	527.000	6609.2
11	529.600	6615.2
12	529.600	6615.2
13	530.900	6618.2
14	530.900	6618.2
15	532.300	6621.4
16	533.600	6624.4
17	533.600	6624.4
18	539.900	6627.4
19	539.900	6627.4
20	539.900	6627.4
21	536.200	6630.4
22	536.200	6630.4
23	536.200	6610.4
24	536.200	6610.4
25	536.200	6610.4
26	537.500	6633.4
27	537.500	6633.4
28	517.500	6633.4
29	537.500	6633.4
30	537.500	6613.4
31	537.500	6613.4
32	517.500	6613.4
33	517.500	6613.4
34	537.500	6613.4
35	540.100	6639.4
36	149.400	5737.8
37	188.700	5826.5
38	211.000	5879.9
39	230.700	5925.4
40	250.400	5970.8
41	264.800	6004.1
42	281.800	6043.3
43	297.600	6079.8
44	311.200	6115.8
45	325.100	6143.2
46	339.500	6176.5
47	348.700	6197.7
48	360.500	6224.9
49	370.000	6246.8
50	381.500	6271.4
51	389.100	6291.4
52	398.500	6312.6
53	406.400	6330.8
54	414.300	6349.1
55	419.500	6361.1
56	428.700	6382.3
57	433.900	6394.3
58	440.500	6409.5
59	445.700	6421.5
60	449.700	6430.8
61	456.200	6445.8
62	460.100	6454.8
63	465.800	6467.0
64	469.100	6476.0
65	473.300	6485.2
66	477.200	6494.2
67	481.100	6503.2
68	483.700	6509.2
69	487.700	6518.5
70	490.100	6524.5
71	492.900	6530.5
72	495.500	6536.5
73	499.200	6542.7
74	500.900	6546.7
75	503.400	6554.7
76	504.700	6557.7
77	507.400	6563.9
78	508.500	6566.9
79	511.300	6572.9
80	512.600	6575.9
81	513.900	6578.9
82	516.500	6584.9
83	516.500	6584.9
84	517.800	6587.9
85	519.200	6591.2
86	520.500	6594.2
87	521.700	6596.9
88	523.100	6600.2
89	523.100	6600.2
90	524.400	6603.2
95	528.300	6612.2
100	531.000	6618.4
105	533.600	6624.4
110	536.200	6630.4
115	537.500	6633.4
120	537.500	6613.4
125	538.800	6636.9
130	540.100	6639.4
135	541.400	6642.4
140	541.400	6642.4
145	542.800	6645.6
150	542.800	6645.6
155	544.100	6648.6
160	544.100	6648.6

165	588,100	6648,6
170	585,800	6651,6
175	586,700	6650,6
180	588,000	6657,6
185	588,000	6657,6
190	588,000	6657,6
194	588,000	6657,6
195	588,700	6751,5
197	687,700	6518,5
200	485,100	6512,5
205	483,700	6509,2
210	483,700	6509,2
215	483,700	6509,2
220	483,700	6509,2
225	483,700	6509,2
230	482,800	6506,2
235	482,800	6506,2
240	482,800	6506,2
245	482,800	6506,2
250	482,800	6506,2
255	482,800	6506,2
256	482,800	6506,2
257	487,000	6628,5
258	462,800	6661,6
259	470,600	6679,0
260	475,800	6691,2
261	481,100	6503,2
262	485,100	6512,5
263	490,300	6524,5
264	492,800	6530,5
265	494,900	6539,7
266	500,800	6548,7
267	502,100	6551,7
268	506,000	6560,7
269	508,200	6566,9
270	511,300	6572,9
271	512,600	6575,9
272	513,900	6578,6
273	516,500	6584,9
274	517,800	6587,9
275	519,200	6591,2
276	521,600	6597,2
277	523,100	6600,2
278	524,800	6603,2
279	525,700	6606,2
280	525,700	6606,2
281	527,000	6609,2
282	528,300	6612,2
283	528,300	6612,2
284	531,000	6618,4
285	531,000	6618,4
286	532,300	6621,4
287	533,600	6624,4
288	533,800	6624,4
289	533,600	6624,4
290	534,900	6627,4
295	537,500	6633,4
300	540,100	6639,4
305	542,800	6645,6
310	544,100	6648,6
315	545,800	6651,6
320	545,800	6651,6
325	546,700	6650,6
330	546,700	6650,6
332	555,900	6675,8
334	562,800	6690,8
336	568,700	6705,4
338	571,600	6712,1
340	575,500	6721,1

342	578.200	6727.3
344	580.800	6733.3
346	583.400	6739.3
348	586.100	6745.5
350	588.600	6751.3
352	589.900	6754.3
354	592.600	6760.5
356	593.900	6763.5
358	596.500	6769.5
360	597.800	6772.5
362	599.100	6775.5
364	600.400	6778.5
366	600.800	6778.5
368	601.600	6781.8
370	613.600	6809.0
372	622.700	6830.0
374	631.800	6851.2
376	640.800	6871.8
378	646.300	6884.5
380	652.900	6899.7
382	659.400	6914.7
384	663.400	6923.9
386	667.300	6932.9
387	671.300	6942.2
388	677.800	6957.2
390	717.100	7047.8
392	723.700	7063.1
394	726.300	7069.1
396	727.600	7072.1
398	728.900	7075.1
400	731.600	7081.3
402	732.900	7084.3
404	739.200	7087.3
406	739.200	7087.3
408	739.200	7087.3
410	711.900	7035.8
412	698.800	7005.6
414	683.000	6969.2
416	669.900	6938.9
418	658.100	6911.7
420	649.000	6890.7
422	641.100	6872.5
424	633.200	6854.2
426	628.700	6839.2
428	620.100	6824.0
430	613.400	6808.5
432	608.300	6796.8
434	604.900	6787.8
436	600.400	6778.5
438	597.800	6772.5
440	593.900	6763.5
442	591.300	6757.5
444	587.300	6748.3
446	586.000	6745.1
448	583.400	6739.3
450	582.100	6736.3
452	579.500	6730.3
454	578.200	6727.3
456	576.800	6724.1
458	575.500	6721.1
460	574.200	6718.1
462	572.900	6715.1
464	571.600	6712.1
466	570.300	6709.1
468	570.300	6709.1
470	568.900	6705.8
472	568.900	6705.8
474	567.700	6703.1
476	567.700	6703.1
478	567.700	6703.1
480	566.400	6700.1
482	566.400	6700.1
484	566.400	6700.1
486	566.400	6700.1
488	565.000	6696.8
490	565.000	6696.8
492	565.000	6696.8
494	565.000	6696.8
496	565.000	6696.8
498	565.000	6696.8
500	563.700	6693.8
502	563.700	6693.8
504	563.700	6693.8
506	563.700	6693.8
508	563.700	6693.8
510	563.700	6693.8
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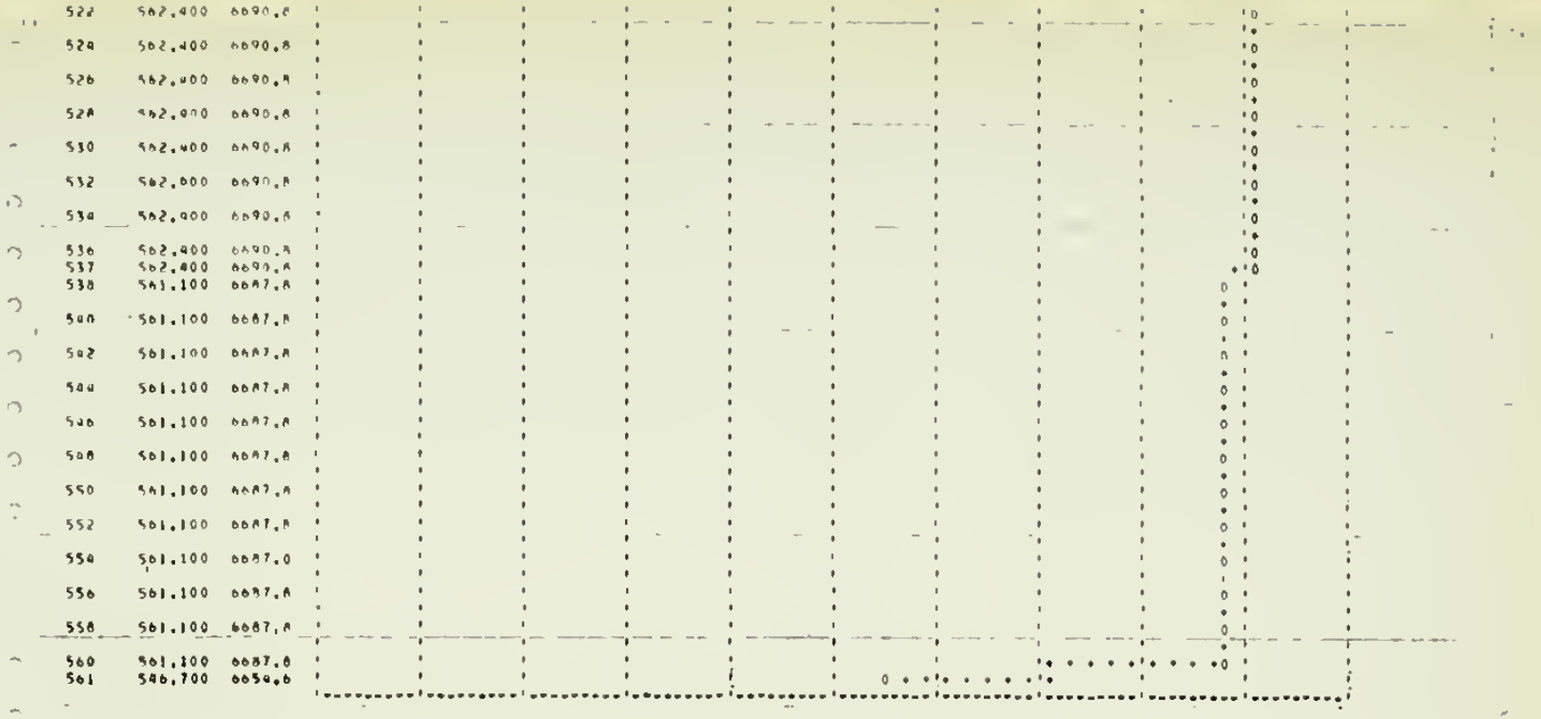
518	562.400	6690.8
520	562.400	6690.8



II B-1054

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 26

Dote: Dec. 17, 1974 Interval tested: 1668-1720 ft.

Pressure gouge: Johnston (Upper)

Formation tested: Parachute Creek below the B Groove

Golder Associates

SG - 17 D.S.T. - 26

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE 36 17 03T 27 DATE 18DEC74 CARDDECK Y JOHNSTON STEM

03/11/75-15140125

/COMMENT INTERVAL TESTED 1711-1770 FT. PARACHUTE CREEK BELOW THE B GROOVE

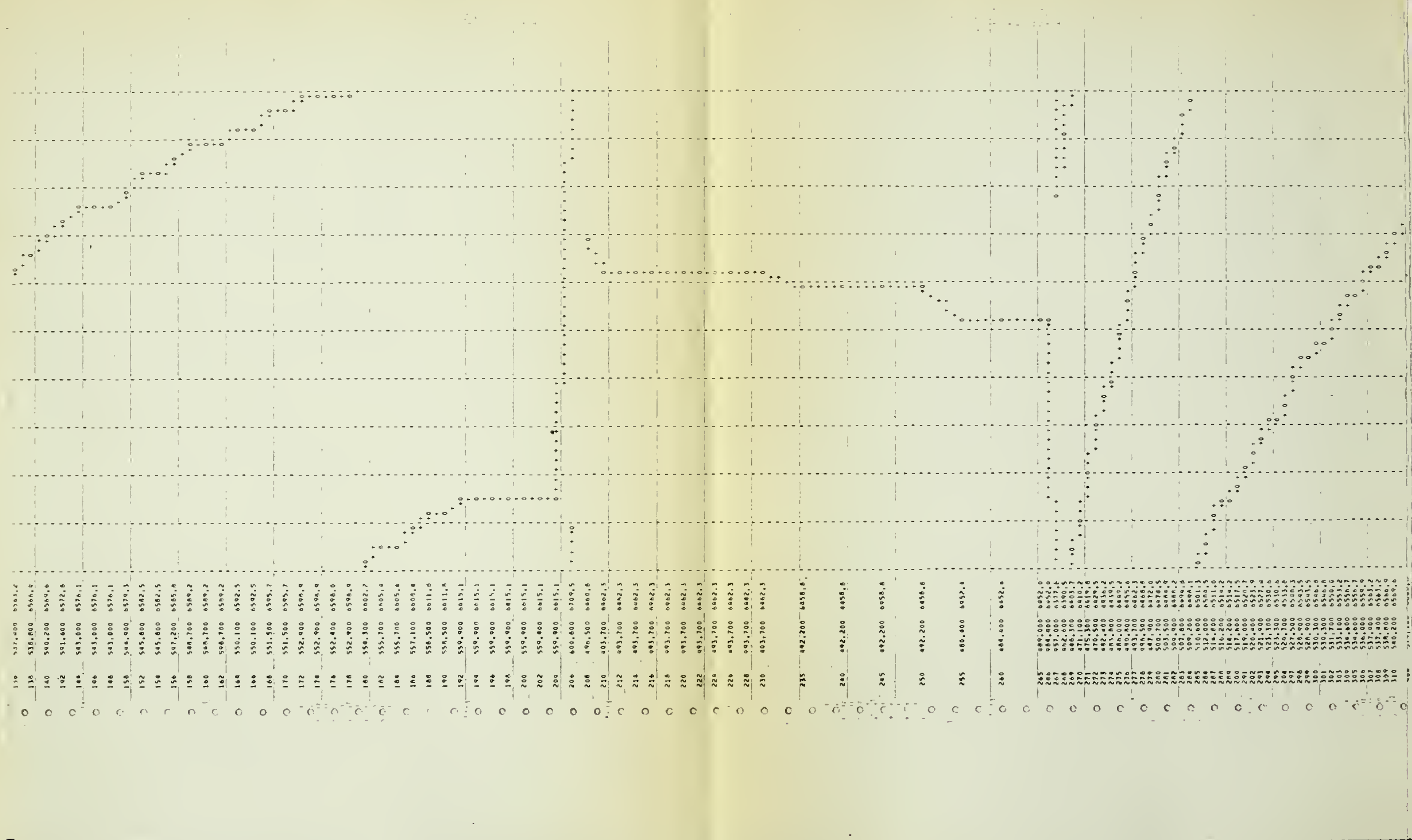
WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	32342
BOMB RANGE (PSI)		=	2800
POSITION OF BOMB (FEET)		=	1713.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1707.00
	MIDDLE	=	1711.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	3.00

BOREHOLE DEPTH (FEET) = 1770.00

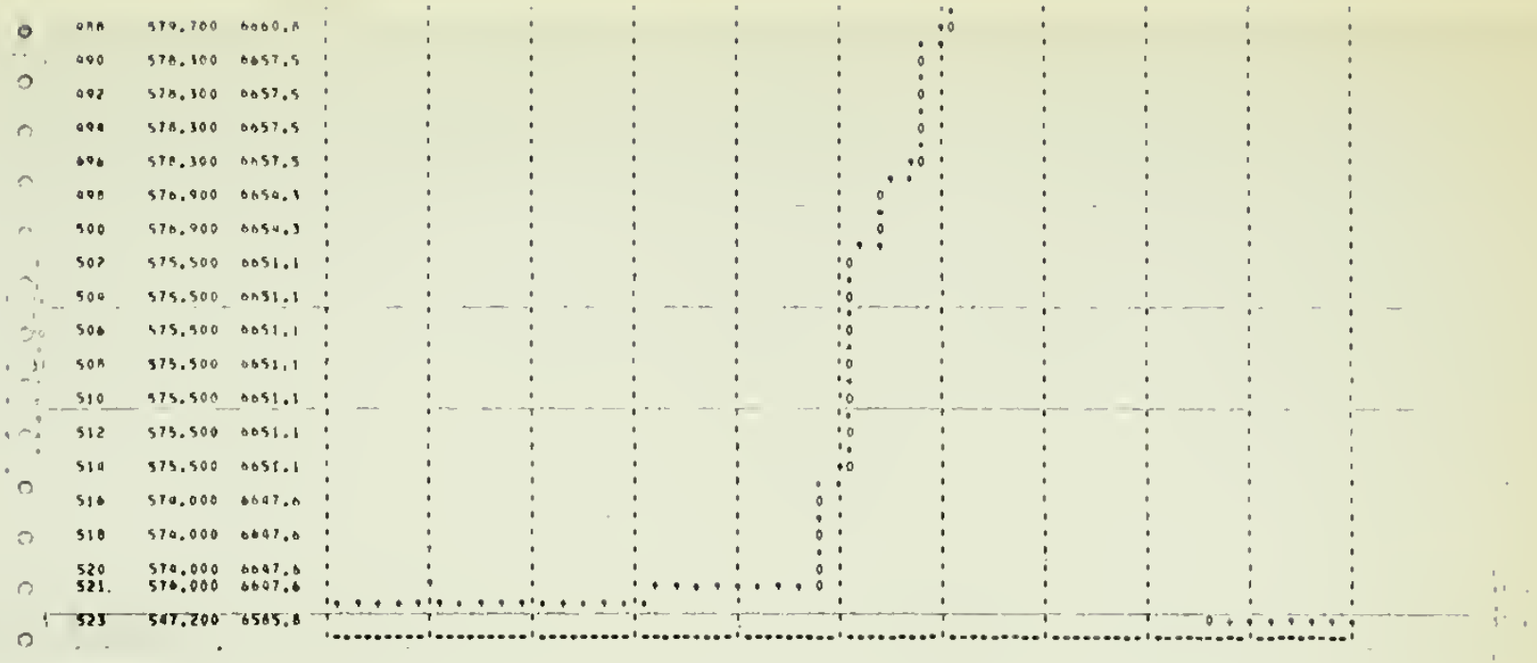
THIS RECORD CONTAINS 75 CARDS

BORE SG 17 051 27 DATE 10DEC74 CARDDECK Y JOHNSTON SILT

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • • 0 10 20 30 40 50 60 70 80 90 0
0	541.600	6572.8	
0	557.100	6608.6	
0	67.100	5864.3	
1	76.200	5898.8	
2	87.500	5928.9	
3	911.800	6273.3	
0	892.200	6858.8	
5	523.300	6530.6	
6	537.400	6563.2	
7	543.000	6576.1	
8	545.800	6582.5	
9	547.200	6585.8	
10	548.700	6589.2	
11	550.100	6592.5	
12	551.500	6595.7	
13	552.900	6598.9	
14	552.900	6598.9	
15	552.900	6598.9	
16	554.300	6602.2	
17	554.300	6602.2	
18	554.300	6602.2	
19	555.700	6605.4	
20	555.700	6605.4	
22	555.700	6605.4	
24	557.100	6608.6	
26	557.100	6608.6	
28	557.100	6608.6	
30	557.100	6608.6	
32	558.500	6611.8	
34	98.700	5550.8	
35	153.700	5677.7	
36	165.000	5703.0	
37	174.900	5726.6	
38	188.800	5760.5	
39	193.200	5769.8	
40	208.500	5798.9	
41	213.000	5814.5	
42	220.000	5830.7	
43	231.300	5854.8	
44	238.400	5873.2	
45	246.800	5892.5	
46	256.700	5915.4	
47	263.800	5931.8	
48	270.800	5947.9	
49	277.900	5964.3	
50	283.500	5977.2	
51	292.000	5996.8	
52	299.000	6013.0	
53	304.100	6029.8	
54	313.100	6045.5	
55	318.800	6058.7	
56	328.800	6071.6	
57	330.000	6084.5	
58	337.100	6100.9	
59	341.300	6110.6	
60	348.300	6126.8	
61	356.000	6139.9	
62	358.300	6149.8	
63	363.900	6162.8	
64	369.500	6175.7	
65	375.200	6188.8	
66	379.400	6198.5	
67	385.000	6211.5	
68	390.300	6221.4	
69	392.100	6227.8	
70	397.700	6240.8	
71	402.000	6250.7	
72	406.200	6260.4	
73	410.400	6270.1	
74	414.700	6280.0	
75	417.500	6286.5	
76	421.700	6296.2	
77	426.000	6306.1	
78	430.200	6315.8	
79	433.000	6322.2	
80	437.200	6331.9	
81	440.100	6338.6	
82	444.300	6348.3	
83	447.100	6354.8	
84	450.900	6361.2	
85	454.200	6371.2	
86	457.000	6377.6	
87	459.800	6384.1	
88	462.600	6390.5	
89	465.000	6397.0	
90	468.300	6403.7	
91	471.100	6410.2	
92	473.900	6416.6	
93	475.300	6419.8	
94	478.100	6426.3	
95	481.000	6433.0	
96	482.400	6436.2	
97	485.200	6442.7	
98	488.000	6449.2	
99	489.400	6452.0	
100	492.200	6458.8	
101	493.700	6462.3	
102	496.500	6468.8	
103	499.300	6475.2	
104	500.700	6478.5	
105	500.700	6478.5	
106	502.100	6481.7	
107	504.900	6488.2	
108	507.800	6494.8	
109	509.200	6498.1	
110	510.600	6501.3	
111	513.400	6507.8	
112	514.800	6511.0	
113	514.800	6511.0	
114	516.200	6514.2	
115	517.600	6517.5	
116	519.000	6520.7	
117	520.400	6521.9	
118	521.900	6527.4	
119	521.900	6527.4	
120	523.300	6530.6	
122	526.100	6537.1	
124	527.500	6540.3	
126	530.300	6546.8	
128	531.700	6550.0	
130	533.100	6553.2	
132	536.600	6556.7	
134	536.000	6559.9	



312	541.600	6572.8
316	543.000	6576.1
316	543.000	6576.1
318	544.400	6579.3
320	545.800	6582.5
322	547.200	6585.8
320	547.200	6585.8
326	548.700	6589.2
328	550.100	6592.5
330	550.100	6592.5
332	550.100	6592.5
336	550.100	6592.5
336	551.500	6595.7
338	551.500	6595.7
340	552.900	6599.0
342	554.300	6602.2
346	554.300	6602.2
346	555.700	6605.4
348	555.700	6605.4
350	558.500	6611.8
352	561.300	6618.3
354	562.800	6621.8
356	560.200	6625.0
358	565.600	6628.2
360	565.600	6628.2
362	567.000	6631.5
363	567.000	6631.5
360	569.800	6637.9
366	578.300	6657.5
368	588.100	6680.2
370	593.800	6693.3
372	602.300	6712.9
374	607.900	6725.8
376	610.900	6732.0
378	619.200	6751.9
380	626.200	6768.1
382	630.500	6778.0
384	634.600	6810.5
386	644.300	6856.0
388	679.800	6891.8
390	696.700	6930.8
392	710.900	6963.5
396	723.500	6992.6
396	733.400	7015.5
398	741.600	7035.1
400	741.900	7035.1
402	741.600	7035.1
404	736.200	7021.9
406	726.800	6999.3
408	716.500	6976.5
410	704.600	6951.6
412	698.200	6938.2
414	689.700	6918.6
416	684.100	6901.7
418	677.000	6885.3
420	670.000	6869.2
422	664.300	6856.0
424	658.700	6843.1
426	653.000	6826.9
428	647.400	6817.0
430	641.700	6805.8
432	637.500	6794.2
434	633.300	6784.5
436	626.000	6770.5
438	626.200	6768.1
440	622.000	6758.4
442	619.200	6751.9
444	616.800	6745.5
446	612.100	6735.5
448	609.300	6726.1
450	606.500	6722.6
452	603.700	6716.2
454	602.300	6712.9
456	566.400	6706.2
458	568.000	6703.0
460	596.600	6698.8
462	593.800	6693.3
464	592.400	6690.1
466	591.000	6686.8
468	589.600	6683.6
470	588.100	6680.2
472	586.100	6680.2
474	585.300	6673.7
476	585.300	6673.7
476	583.900	6670.5
480	583.400	6670.5
482	582.500	6667.2
484	581.100	6664.0
486	579.700	6660.8



II B-1055

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 27

Date: Dec. 18, 1974 Interval tested: 1711-1770 ft.

Pressure gauge: Johnston (Lower)

Formation tested: Parachute Creek below the B Groove

Golder Associates

SG - 17 D.S.T. - 27

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE 9G 17 DST 2A DATE 19DEC74 CARDDECK 2 JOHNSTON STEM

03/11/75.15140148

/COMMENT INTERVAL TESTED 1768-1820 FT. PARACHUTE CREEK BELOW B GROOVE

WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	32342
BOMB RANGE (PSI)	=	2800
POSITION OF BOMB (FEET)	=	1770.00
LOCATION OF BOMB	=	STEM

BOTTOM OF PACKERS	UPPER	*	1764,00
(FEET)	MIDDLE	*	1768,00
	LOWER	*	,00
LENGTH OF PACKERS (FEET)		*	2,00
BOREHOLE DEPTH (FEET)		*	1820,00

THIS RECORD CONTAINS 78 CARDS

BORE 3G 17 OST 20 0A7F 190EC7G CARDOECK 2 JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATION (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	600,800	6652,5	
0	612,100	6678,5	
0	111,400	5523,1	
1	132,600	5572,0	
2	141,100	5591,6	
3	376,600	6135,1	
4	468,300	6336,7	
5	524,700	6476,8	
6	558,500	6554,8	
7	575,400	6593,8	
8	585,300	6616,7	
9	592,400	6633,1	
10	596,600	6642,8	
11	599,400	6649,2	
12	600,800	6652,5	
13	603,700	6659,2	
14	605,100	6662,4	
15	605,100	6662,4	
16	606,500	6665,6	
17	606,500	6665,6	
18	607,900	6668,8	
19	607,900	6668,8	
20	609,300	6672,1	
21	609,300	6672,1	
22	609,300	6672,1	
23	609,300	6672,1	
24	610,700	6675,3	
25	610,700	6675,3	
26	610,700	6675,3	
27	610,700	6675,3	
28	610,700	6675,3	
29	610,700	6675,3	
30	610,700	6675,3	
31	610,700	6675,3	
32	610,700	6675,3	
33	610,700	6675,3	
34	612,100	6678,5	
35	614,900	6685,0	
36	614,900	6685,0	
37	200,300	5724,2	
38	244,000	5829,1	
39	259,500	5866,4	
40	282,100	5917,0	
41	299,300	5956,0	
42	313,100	5989,5	
43	330,000	6027,5	
44	342,700	6056,8	
45	360,000	6096,4	
46	370,900	6121,9	
47	385,100	6154,7	
48	398,900	6177,3	
49	407,400	6209,4	
50	414,900	6232,7	
51	424,800	6255,5	
52	440,100	6281,6	
53	447,100	6297,8	
54	456,900	6320,4	
55	464,000	6336,8	
56	475,300	6362,9	
57	483,800	6382,5	
58	492,200	6401,8	
59	497,900	6415,0	
60	504,900	6431,2	
61	510,600	6444,3	
62	516,200	6457,2	
63	523,300	6473,6	
64	528,900	6486,5	
65	534,600	6499,7	
66	538,800	6509,4	
67	544,400	6522,3	
68	548,700	6532,2	
69	552,900	6541,9	
70	555,700	6548,4	
71	559,900	6558,1	
72	562,900	6565,0	
73	565,700	6571,5	
74	569,400	6577,7	
75	571,200	6584,2	
76	574,000	6590,6	
77	576,900	6597,3	
78	578,300	6600,5	
79	581,100	6607,0	
80	582,500	6610,2	
81	583,900	6613,5	
82	585,300	6616,7	
83	586,700	6619,9	
84	588,200	6623,4	
85	590,000	6629,8	
86	590,000	6629,8	
87	592,400	6633,1	
88	592,400	6633,1	
89	593,800	6636,3	
90	595,200	6639,5	
92	596,000	6646,0	
94	599,400	6649,2	
96	600,800	6652,5	
98	600,800	6652,5	
100	602,300	6655,9	
102	603,700	6659,2	
104	605,100	6662,4	
106	605,100	6662,4	
108	606,500	6665,6	
110	606,500	6665,6	
112	607,900	6668,8	
114	607,900	6668,8	
116	609,300	6672,1	
118	609,300	6672,1	
120	609,300	6672,1	
122	610,700	6675,3	
124	610,700	6675,3	
126	610,700	6675,3	
128	612,100	6678,5	
130	612,100	6678,5	

134	613.500	6681.8
136	613.500	6681.8
138	613.500	6681.8
140	613.500	6681.8
142	614.900	6685.0
144	614.900	6685.0
146	614.900	6685.0
148	614.900	6685.0
150	614.900	6685.0
152	616.800	6688.5
154	616.800	6688.5
156	616.800	6688.5
158	616.800	6688.5
160	617.800	6691.7
162	617.800	6691.7
164	617.800	6691.7
166	617.800	6691.7
168	617.800	6691.7
170	617.800	6691.7
172	617.800	6691.7
174	617.800	6691.7
176	619.100	6694.7
178	619.100	6694.7
180	619.100	6694.7
182	619.100	6694.7
184	619.100	6694.7
186	619.100	6694.7
188	619.100	6694.7
190	620.600	6698.2
192	622.000	6701.4
194	622.000	6701.4
196	622.000	6701.4
198	622.000	6701.4
200	622.000	6701.4
202	622.000	6701.4
204	622.000	6701.4
206	622.000	6701.4
208	622.000	6701.4
210	622.000	6701.4
212	622.000	6701.4
214	620.200	6697.8
216	568.000	6577.7
218	564.200	6568.0
220	562.800	6564.8
222	562.800	6564.8
224	562.800	6564.8
226	562.800	6564.8
228	562.800	6564.8
230	562.800	6564.8
235	561.800	6561.5
240	561.800	6561.5
245	559.900	6558.1
250	559.900	6558.1
255	559.900	6558.1
260	558.500	6554.8
265	558.500	6554.8
270	558.500	6554.8
271	519.000	6483.7
272	526.100	6480.1
273	534.000	6502.9
274	541.600	6515.8
275	548.700	6532.2
276	554.300	6545.2
277	558.500	6554.8
278	564.200	6568.0
279	567.000	6574.5
280	571.200	6584.2
281	575.000	6590.6
282	578.300	6600.5
283	579.700	6603.8
284	582.500	6610.2
285	583.900	6611.5
286	585.100	6614.7
287	588.100	6623.2
288	588.100	6623.2
289	591.000	6629.8
290	592.800	6633.1
291	593.800	6636.3
292	595.200	6639.5
293	596.600	6642.8
294	598.800	6646.0
295	600.500	6652.5
296	602.800	6652.5
297	602.300	6655.9
298	603.700	6659.2
299	604.700	6659.2
300	605.100	6662.4
301	605.100	6662.4
302	606.500	6665.6
303	606.500	6665.6
304	607.900	6668.8
305	607.900	6668.8
306	609.300	6672.1
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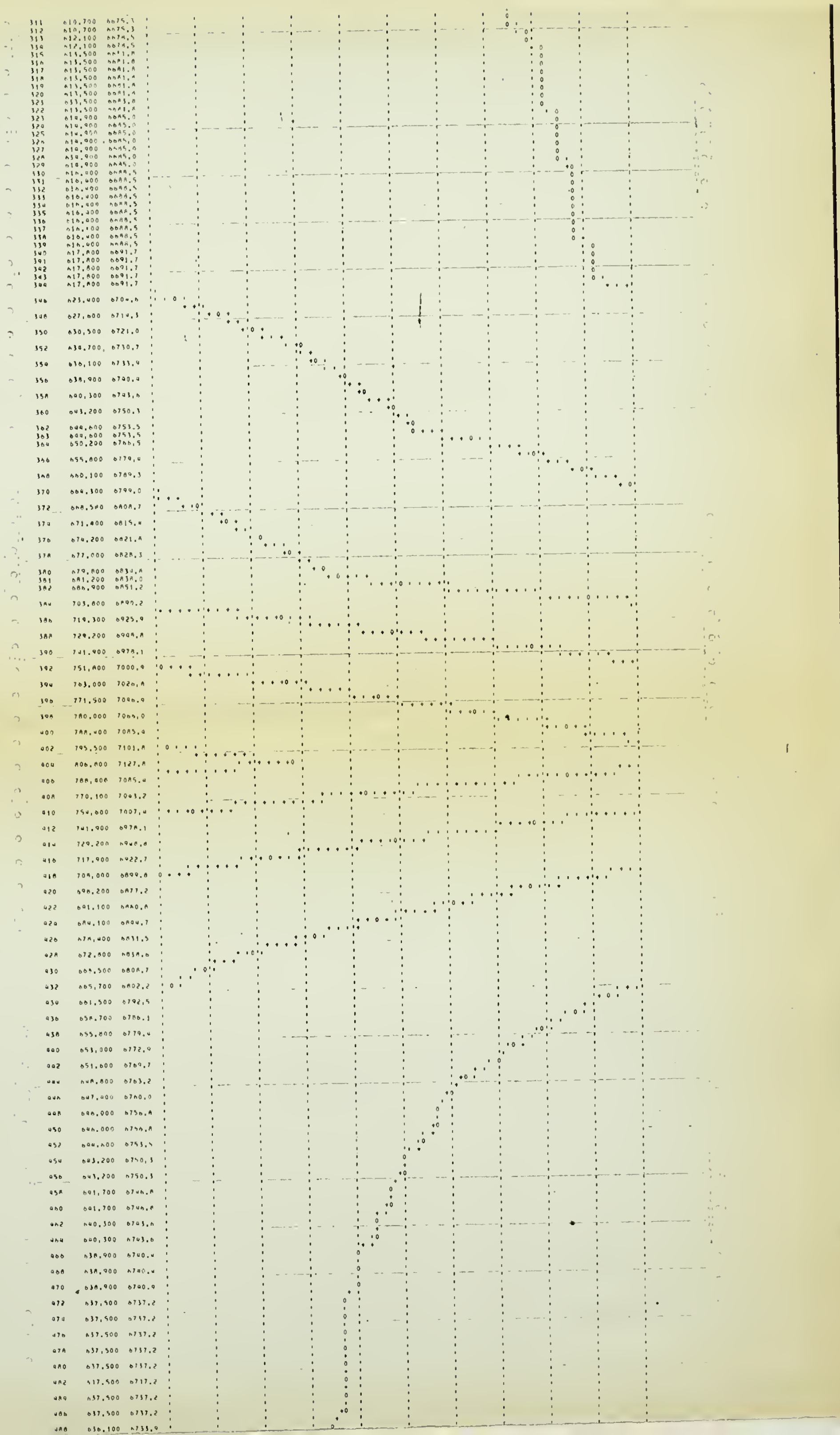
309	610.700	6675.1
310	610.700	6675.1


311 610.700 6675.1
312 610.700 6675.3
313 612.100 6674.5
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315 613.500 6681.8
316 613.500 6681.8
317 613.500 6681.8
318 613.500 6681.8
319 613.500 6681.8
320 613.500 6681.8
321 613.500 6683.8
322 613.500 6681.8
323 614.900 6685.0
324 614.900 6685.0
325 614.900 6685.0
326 614.900 6685.0
327 614.900 6685.0
328 614.900 6685.0
329 614.900 6685.0
330 616.300 6688.5
331 616.300 6688.5
332 616.300 6688.5
333 616.300 6688.5
334 616.300 6688.5
335 616.300 6688.5
336 616.300 6688.5
337 616.300 6688.5
338 616.300 6688.5
339 616.300 6688.5
340 617.800 6691.7
341 617.800 6691.7
342 617.800 6691.7
343 617.800 6691.7
344 617.800 6691.7
346 623.400 6704.6
348 627.600 6714.3
350 630.500 6721.0
352 634.700 6730.7
354 636.100 6733.9
356 638.900 6740.4
358 640.300 6743.6
360 643.200 6750.3
362 644.600 6753.5
363 644.600 6753.5
364 650.200 6766.5
366 655.800 6779.4
368 660.100 6789.3
370 664.300 6799.0
372 668.500 6808.7
374 671.400 6815.4
376 674.200 6821.8
378 677.000 6828.3
380 679.800 6834.8
381 681.200 6838.0
382 686.900 6851.2
384 703.800 6890.2
386 719.300 6925.9
388 729.200 6948.8
390 741.900 6978.1
392 751.800 7000.9
394 763.000 7026.8
396 771.500 7046.9
398 780.000 7066.0
400 788.400 7085.4
402 795.500 7101.8
404 806.800 7127.8
406 788.800 7085.4
408 770.100 7043.2
410 754.600 7007.4
412 741.900 6978.1
414 729.200 6948.8
416 717.900 6922.7
418 709.000 6899.8
420 698.200 6877.2
422 691.100 6860.8
424 684.100 6844.7
426 678.400 6831.5
428 672.800 6818.6
430 668.500 6808.7
432 665.700 6802.2
434 661.500 6792.5
436 658.700 6786.1
438 655.800 6779.4
440 653.000 6772.9
442 651.600 6769.7
444 648.800 6763.2
446 647.400 6760.0
448 646.000 6756.8
450 644.000 6750.8
452 644.800 6753.5
454 643.200 6750.3
456 643.200 6750.3
458 641.700 6746.8
460 641.700 6746.8
462 640.300 6743.6
464 640.300 6743.6
466 638.900 6740.4
468 638.900 6740.4
470 638.900 6740.9
472 637.500 6737.2
474 637.500 6737.2
476 637.500 6737.2
478 637.500 6737.2
480 637.500 6737.2
482 637.500 6737.2
484 637.500 6737.2
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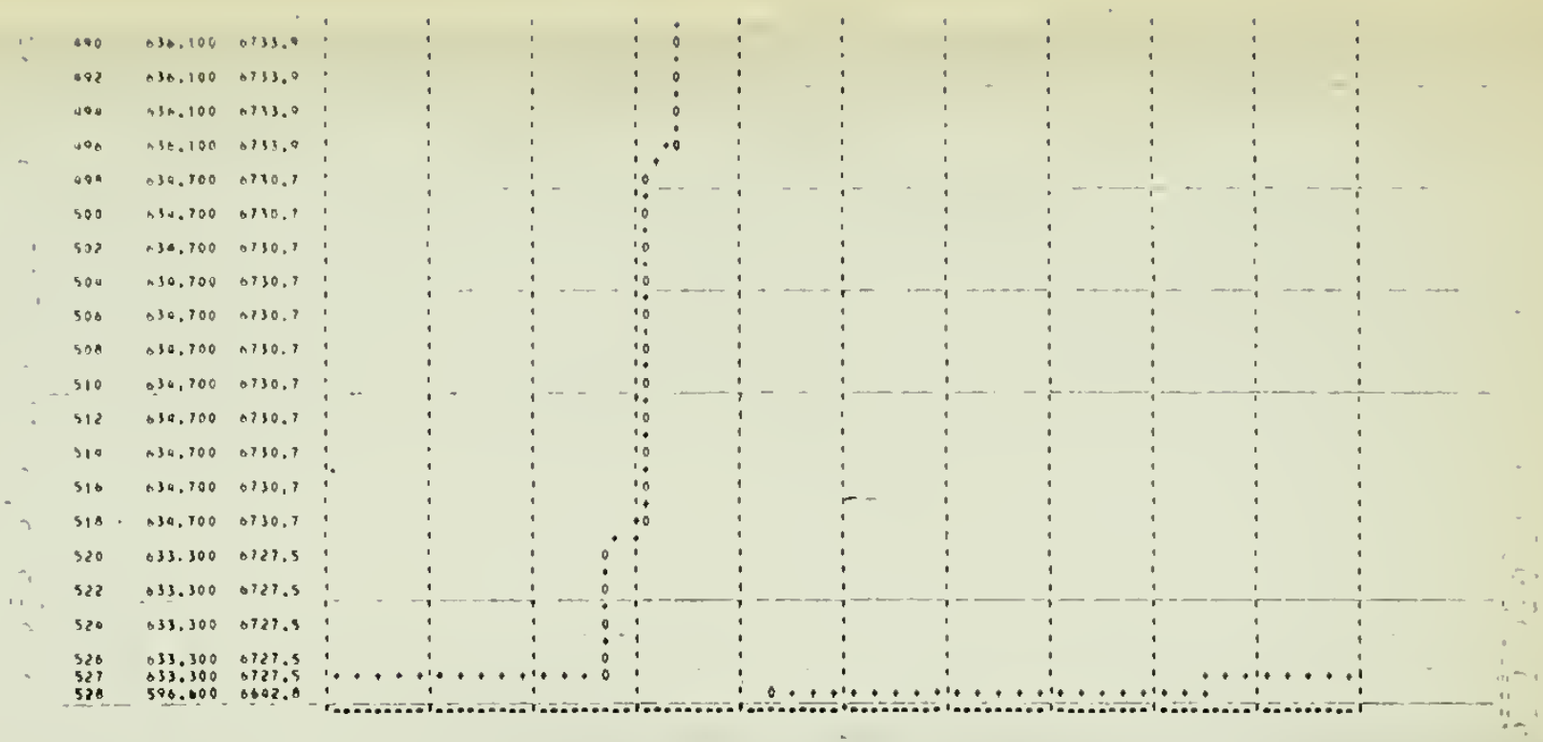
488 636.100 6733.9



NOTES:

1. Lower Johnston gauge malfunction during the test.

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 28

Date: Dec. 19, 1974 Interval tested: 1764-1768 ft.

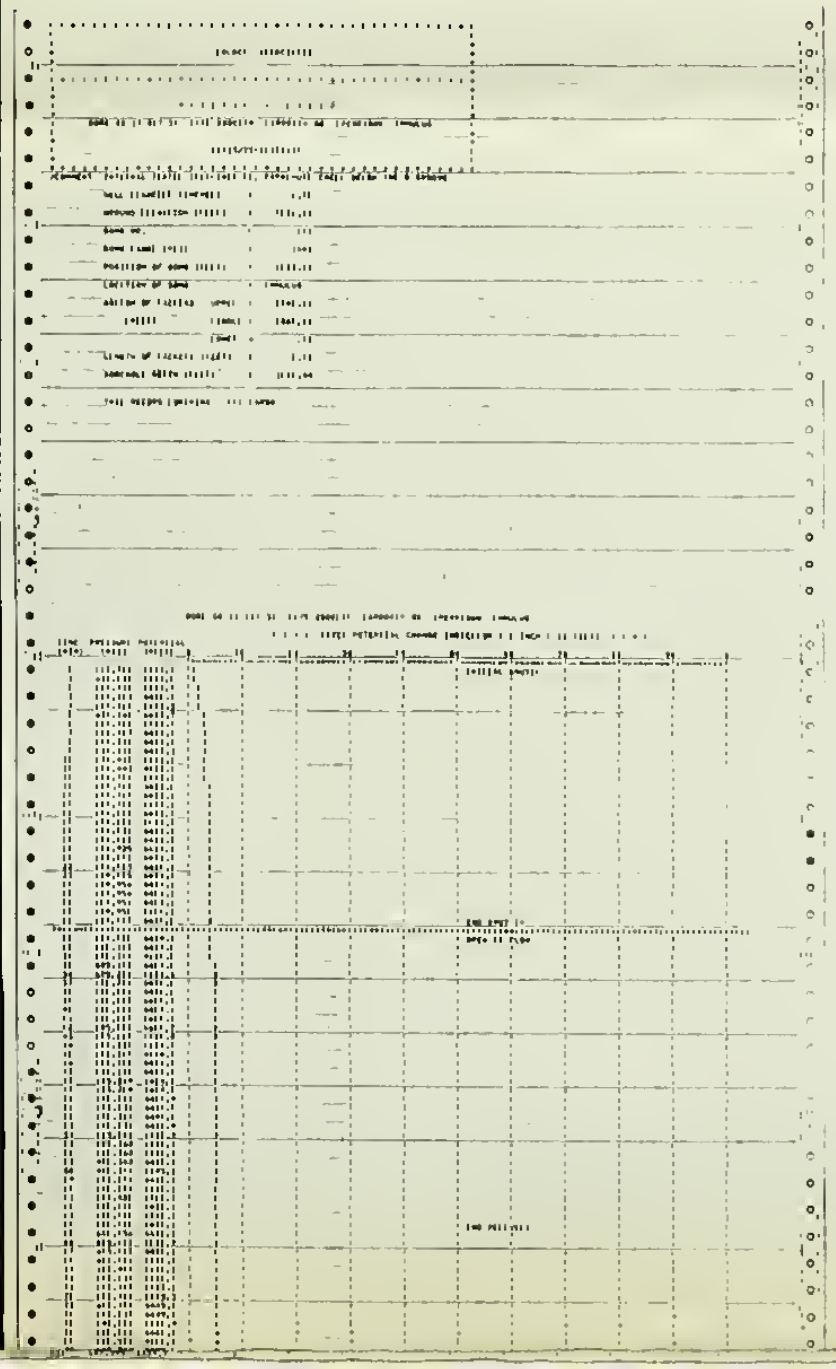
Pressure gauges: Johnston (Lower)

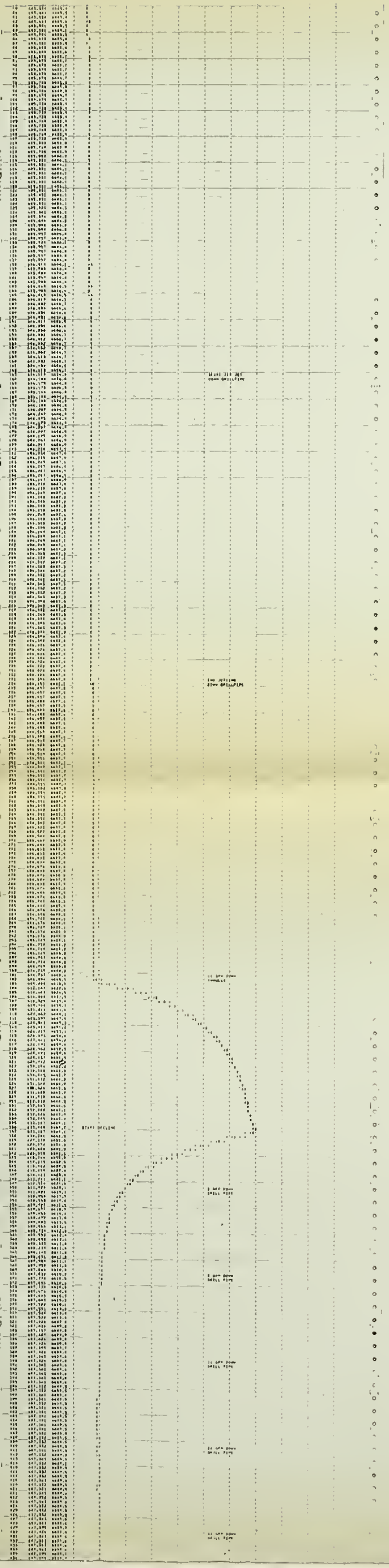
Formation tested: Parachute Creek below the B Groove.

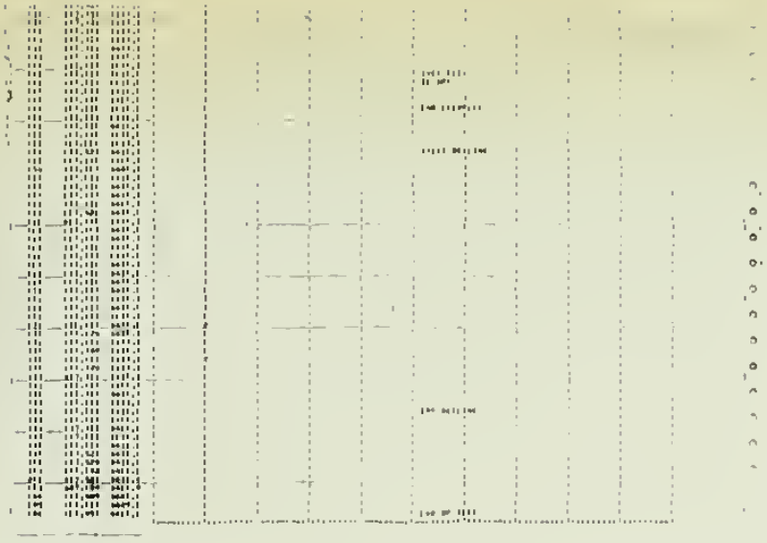
Golder Associates

SG - 17 D.S.T. - 28

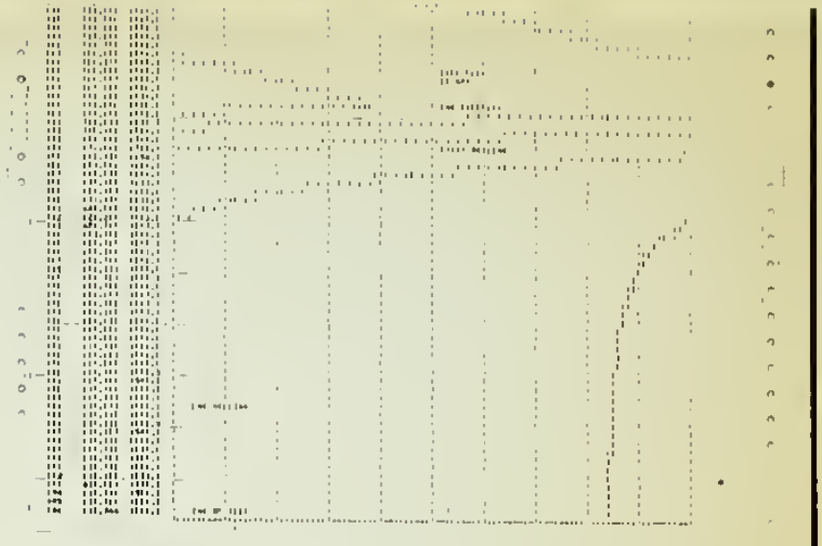
II B-1056







ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1057

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no 30

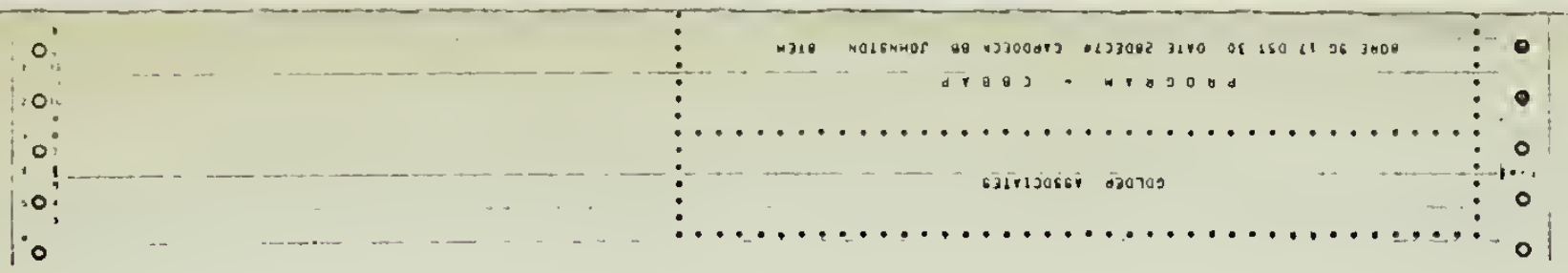
Date: Dec. 28, 1974 Interval tested 1869-1920 ft.

Pressure gauges. Sperry Sun

Formation tested. Parachute Creek below the B Groove

Golder Associates

SG- 17 D.S.T.- 30


GOLDEP ASSOCIATES
PROGRAM - CBAP
BORE 3C 17 DST 30 DATE 28DEC78# CAPDOECH BB JOHNSTON BIEM

02/17/75-22:52:08

/COMMENT INTERVAL TESTED 1869-1920 FT, PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	0372N
BOMB RANGE (PSI)		=	2800
POSITION OF BOMB (FEET)		=	1845.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1865.00
	MIDDLE	=	1869.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1920.00

THIS RECORD CONTAINS 80 CARDS

BORE SG 17 057 30 DATE 28DEC74 CARDDECK 88 JOHNSTON STEM

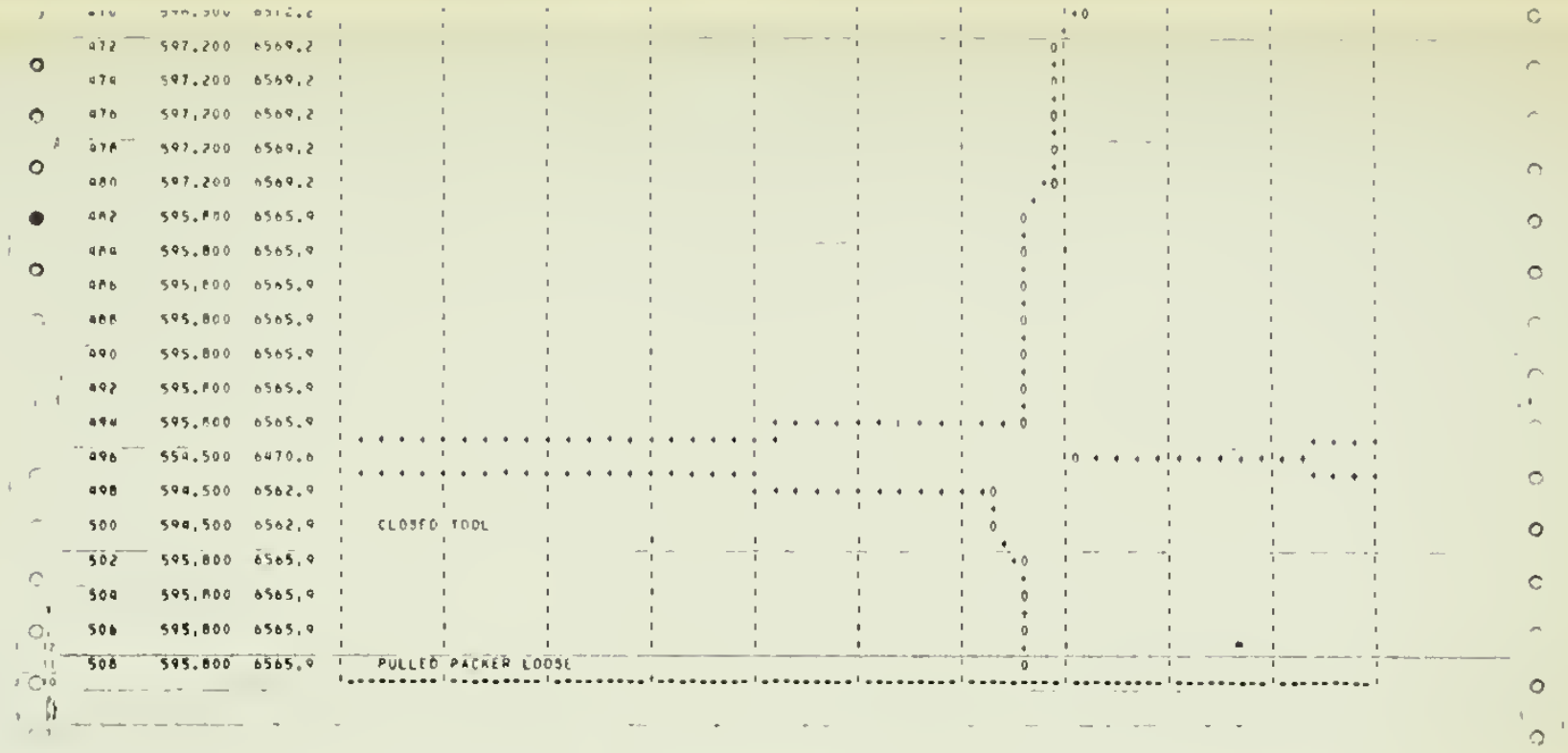
• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	
0	103.500	5929.8	TOOL OPENED
2	103.500	5929.8	INITIAL SHUT-IN
4	579.900	6529.2	
6	587.900	6547.7	
8	589.200	6550.7	
10	590.500	6553.7	
12	590.500	6553.7	
14	590.500	6553.7	
16	590.500	6553.7	
18	590.500	6553.7	
20	590.500	6553.7	
22	590.500	6553.7	
24	590.500	6553.7	
26	590.500	6553.7	
28	590.500	6553.7	
30	590.500	6553.7	
32	590.500	6553.7	
33	590.500	6553.7	END SHUT-IN
34	590.500	6553.7	
35	590.500	6553.7	TOOL CYCLED
36	329.700	5951.8	INITIAL FLOW
38	472.100	6280.5	
40	525.300	6403.2	
42	564.600	6498.5	
44	582.500	6535.2	
46	586.500	6544.5	
48	587.900	6547.7	
50	589.200	6550.7	
52	589.200	6550.7	
54	590.500	6553.7	
56	590.500	6553.7	
58	590.500	6553.7	
60	590.500	6553.7	
62	590.500	6553.7	
64	590.500	6553.7	
66	590.500	6553.7	
68	590.500	6553.7	
70	590.500	6553.7	
72	590.500	6553.7	
74	590.500	6553.7	
76	590.500	6553.7	
78	590.500	6553.7	
80	590.500	6553.7	
82	590.500	6553.7	
84	590.500	6553.7	
86	590.500	6553.7	
88	590.500	6553.7	
90	590.500	6553.7	
92	590.500	6553.7	
94	590.500	6553.7	
96	590.500	6553.7	
98	590.500	6553.7	
100	590.500	6553.7	
102	590.500	6553.7	
104	590.500	6553.7	
106	590.500	6553.7	
108	590.500	6553.7	
110	590.500	6553.7	
112	590.500	6553.7	
114	590.500	6553.7	
116	590.500	6553.7	
292	590.500	6553.7	

118	590,500	6553,7	
120	590,500	6553,7	
122	590,500	6553,7	
124	590,500	6553,7	
126	590,500	6553,7	
128	590,500	6553,7	
130	590,500	6553,7	
132	590,500	6553,7	
134	590,500	6553,7	
136	590,500	6553,7	
138	590,500	6553,7	
140	590,500	6553,7	
142	590,500	6553,7	
144	590,500	6553,7	
146	590,500	6553,7	
148	590,500	6553,7	
150	590,500	6553,7	
152	590,500	6553,7	
154	590,500	6553,7	
156	590,500	6553,7	
158	590,500	6553,7	
160	590,500	6553,7	
162	590,500	6553,7	
164	590,500	6553,7	
166	590,500	6553,7	
167	590,500	6553,7	STARTED JETTING
168	589,400	6575,2	
169	611,400	6602,8	PRESSURE INCREASE
170	577,200	6523,0	
171	567,900	6501,5	PRESSURE DECREASE
172	579,900	6529,2	
174	579,900	6529,2	
176	579,900	6529,2	
178	579,900	6529,2	
180	579,900	6529,2	
182	579,900	6529,2	
184	579,900	6529,2	
186	579,900	6529,2	
188	578,500	6526,0	
190	578,500	6526,0	
192	578,500	6526,0	
194	578,500	6526,0	
196	578,500	6526,0	
198	578,500	6526,0	
200	578,500	6526,0	
202	578,500	6526,0	
204	578,500	6526,0	
206	578,500	6526,0	
208	578,500	6526,0	
210	578,500	6526,0	
212	578,500	6526,0	
214	578,500	6526,0	
216	578,500	6526,0	
218	578,500	6526,0	
220	578,500	6526,0	
222	578,500	6526,0	
224	578,500	6526,0	
226	577,200	6523,0	
228	577,200	6523,0	
230	577,200	6523,0	
232	577,200	6523,0	
234	577,200	6523,0	
236	577,200	6523,0	
238	577,200	6523,0	
239	577,200	6523,0	
240	563,900	6492,3	
241	587,900	6455,4	FINISHED JETTING
242	579,900	6529,2	
244	587,900	6587,7	
246	589,200	6550,7	
248	589,200	6550,7	
250	589,200	6550,7	
252	589,200	6550,7	
254	589,200	6550,7	
256	589,200	6550,7	
258	589,200	6550,7	
260	590,500	6553,7	
262	590,500	6553,7	
264	590,500	6553,7	
266	590,500	6553,7	
268	590,500	6553,7	
270	590,500	6553,7	
272	590,500	6553,7	
274	590,500	6553,7	
276	590,500	6553,7	
278	590,500	6553,7	
280	590,500	6553,7	
282	590,500	6553,7	
284	590,500	6553,7	
286	590,500	6553,7	
288	590,500	6553,7	
290	590,500	6553,7	
292	590,500	6553,7	

JETTING WATER

294	591,800	6556,7	
296	591,800	6556,7	
298	591,800	6556,7	
300	591,800	6556,7	
302	591,800	6556,7	
304	591,800	6556,7	
306	591,800	6556,7	
308	591,800	6556,7	
310	591,800	6556,7	
312	591,800	6556,7	
314	591,800	6556,7	
316	591,800	6556,7	
318	591,800	6556,7	
320	591,800	6556,7	
322	591,800	6556,7	
324	591,800	6556,7	
326	591,800	6556,7	
328	591,800	6556,7	
330	591,800	6556,7	
332	591,800	6556,7	
334	591,800	6556,7	
336	591,800	6556,7	
338	591,800	6556,7	
340	591,800	6556,7	
342	591,800	6556,7	
344	591,800	6556,7	
346	591,800	6556,7	
348	591,800	6556,7	
350	591,800	6556,7	
352	591,800	6556,7	
354	591,800	6556,7	STARTED INJECTION 2 GAL./MIN.
356	591,800	6556,7	
358	593,200	6559,9	
360	593,200	6559,9	
362	593,200	6559,9	
364	593,200	6559,9	
366	593,200	6559,9	
368	594,500	6562,9	
370	594,500	6562,9	
372	594,500	6562,9	
374	594,500	6562,9	
375	594,500	6562,9	STARTED 5 GAL./MIN. RATE
376	595,800	6565,9	
378	597,200	6569,2	
380	597,200	6569,2	
382	597,200	6569,2	
384	597,200	6569,2	
386	597,200	6569,2	
388	597,200	6569,2	
390	597,200	6569,2	
392	597,200	6569,2	
394	597,200	6569,2	
395	597,200	6569,2	STARTED 11 GAL./MIN. RATE
396	603,800	6580,8	
398	606,500	6590,6	
400	607,800	6593,6	
402	609,100	6596,6	
404	609,100	6596,6	
406	609,100	6596,6	
408	610,500	6599,8	
410	610,500	6599,8	
412	610,500	6599,8	
414	610,500	6599,8	STARTED 20 GAL./MIN. RATE
416	623,800	6630,5	
418	629,100	6642,8	
420	634,400	6655,0	
422	638,800	6664,2	
424	641,100	6670,5	
426	643,700	6676,5	
428	647,700	6685,7	
430	651,700	6694,9	
432	655,700	6704,2	
434	661,000	6716,4	STARTED 30 GAL./MIN. RATE
436	683,700	6768,8	
438	697,000	6799,5	
440	706,300	6820,9	
442	719,600	6851,6	
444	728,900	6873,8	
446	728,900	6873,1	
448	736,900	6891,5	
450	748,900	6910,0	
452	751,500	6925,2	
454	756,800	6937,5	FINISHED INJECTION
456	707,600	6823,9	
458	661,000	6716,4	
460	635,800	6658,2	
462	618,500	6618,3	
464	607,800	6593,6	
466	602,500	6581,4	
468	599,800	6575,2	



II B-1058

NOTES:

C-b TRACT HYDROLOGY	
Borehole no. 17	Drill stem test no. 30
Dote: Dec. 28, 1974	Intervol tested: 1869-1920 ft.
Pressure gouge: Johnston (Upper)	
Formotion tested: Parachute Creek below the B Groove.	

Golder Associates

SG - 17 D.S.T. - 30

GOLDER ASSOCIATES

PROGRAM = CBBAP

BORE 8G 17 OST 31 DATE 30DEC74 CARDDECK CC JOHNSTON STEM

02/17/75-22:53:22

/COMMENT INTERVAL TESTED 1918-1970 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	8097N
BOMB RANGE (PSI)		=	2800
POSITION OF BOMB (FEET)		=	1920.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	1914.00
	MIDDLE	=	1918.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	1970.00

THIS RECORD CONTAINS 68 CARDS

BORE 56 17 DST 31 DATE 30DEC74 CARODECH CC JOHNSTON BIEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	
0	150.000	5042.2	TOOL OPENED
2	171.100	5510.8	
4	606.000	6518.5	
6	606.000	6514.5	
8	606.000	6514.5	
10	606.000	6514.5	
12	606.000	6514.5	
14	606.000	6514.5	
16	606.000	6514.5	
18	606.000	6514.5	
20	606.000	6514.5	
22	606.000	6514.5	
24	606.000	6514.5	
26	606.000	6514.5	
28	606.000	6514.5	
30	606.000	6514.5	
32	606.000	6514.5	INITIAL SHUT-IN
34	607.500	6517.9	
35	78.300	5284.7	
36	110.900	5381.2	INITIAL FLOW
38	105.800	5452.5	
40	160.800	5507.8	
42	188.100	5550.1	
44	207.800	5595.5	
46	220.600	5634.3	
48	242.000	5676.5	
50	259.800	5715.5	
52	276.700	5754.5	
54	293.600	5793.5	
56	307.700	5826.1	
58	324.600	5865.1	
60	337.200	5896.2	
62	350.100	5933.2	
64	366.800	5962.5	
66	378.100	5988.5	
68	392.100	6020.8	
70	403.400	6046.9	
72	416.100	6076.2	
74	425.900	6094.8	
76	437.200	6120.0	
78	448.400	6150.8	
80	458.300	6173.6	
82	466.100	6196.2	
84	476.600	6215.8	
86	486.400	6238.5	
88	493.500	6250.8	
90	501.900	6279.2	
92	510.400	6293.8	
94	516.000	6306.8	
96	523.000	6322.9	
98	530.100	6338.3	
100	535.700	6352.2	
102	530.900	6361.6	
104	545.600	6375.1	
106	551.200	6388.0	
108	555.400	6397.7	
110	550.600	6407.6	
112	562.000	6413.8	
114	565.300	6420.5	
116	560.500	6030.2	
118	572.300	6436.7	
120	575.100	6003.2	
122	577.000	6049.6	
124	579.300	6452.8	
126	582.200	6450.5	
128	583.600	6462.8	
130	585.000	6466.0	
132	586.400	6060.2	
134	587.800	6472.5	
136	589.200	6475.7	
138	589.200	6475.7	
140	590.600	6478.9	
142	592.000	6482.2	
144	593.400	6485.4	
146	593.400	6085.4	
148	593.400	6485.4	
150	594.800	6088.6	
152	596.200	6491.8	
154	596.200	6401.8	
156	596.200	6401.8	
158	597.600	6005.1	
160	597.600	6495.1	
162	597.600	6495.1	
160	597.600	6495.1	

0 10 20 30 40 50 60 70 80 90 0

CYCLING TOOL

END SHUT-IN

166	599,000	6498,3	
168	599,000	6498,3	
170	599,000	6498,3	
172	599,000	6498,3	
174	599,000	6498,3	
176	600,400	6501,5	
178	600,400	6501,5	
180	600,400	6501,5	
182	600,400	6501,5	
184	600,400	6501,5	
186	600,400	6501,5	
188	601,900	6505,0	
190	601,900	6505,0	
192	601,900	6505,0	
194	601,900	6505,0	
196	601,900	6505,0	
198	601,900	6505,0	
200	601,900	6505,0	
202	601,900	6505,0	
204	601,900	6505,0	
206	601,900	6505,0	
208	601,900	6505,0	
210	601,900	6505,0	
212	601,000	6505,0	
214	603,300	6508,2	
216	603,300	6508,2	
218	603,300	6508,2	
220	604,700	6511,5	
222	604,700	6511,5	
224	604,700	6511,5	
226	604,700	6511,5	
228	604,700	6511,5	
230	604,700	6511,5	
232	604,700	6511,5	
234	604,700	6511,5	
236	604,700	6511,5	
237	604,700	6511,5	STARTED JETTING WATER
238	635,600	6582,8	
239	646,000	6608,8	JETTING
240	545,600	6375,1	
241	542,700	6368,4	JETTING
242	562,400	6413,8	
243	582,200	6459,5	JETTING
244	577,900	6449,6	
246	572,300	6436,7	
248	569,500	6430,2	
250	569,500	6430,2	
252	569,500	6430,2	
254	569,500	6430,2	
256	569,500	6430,2	
258	569,500	6430,2	
260	569,500	6430,2	
262	569,500	6430,2	
264	569,500	6430,2	
266	569,500	6430,2	
268	569,500	6430,2	
270	569,500	6430,2	
272	569,500	6430,2	
274	569,500	6430,2	
276	569,500	6430,2	
278	569,500	6430,2	
280	569,500	6430,2	
282	569,500	6430,2	
284	569,500	6430,2	
286	568,100	6427,0	
288	568,100	6427,0	
290	568,100	6427,0	
292	568,100	6427,0	
294	568,100	6427,0	
296	568,100	6427,0	
298	568,100	6427,0	
300	568,100	6427,0	
302	568,100	6427,0	
304	535,700	6352,2	FINISHED JETTING
306	548,400	6381,5	
308	558,000	6390,5	
310	559,600	6407,8	
312	563,900	6417,3	
314	568,100	6427,0	
316	570,900	6431,5	
318	575,100	6443,2	
320	579,300	6452,8	
322	580,700	6456,1	
324	583,600	6462,5	
326	585,000	6466,0	
328	586,400	6469,2	
330	589,200	6475,7	
332	589,200	6475,7	
334	590,600	6478,9	
336	592,000	6482,2	
338	593,400	6485,4	
340	593,400	6485,4	
342	594,800	6488,6	
344	596,200	6491,8	

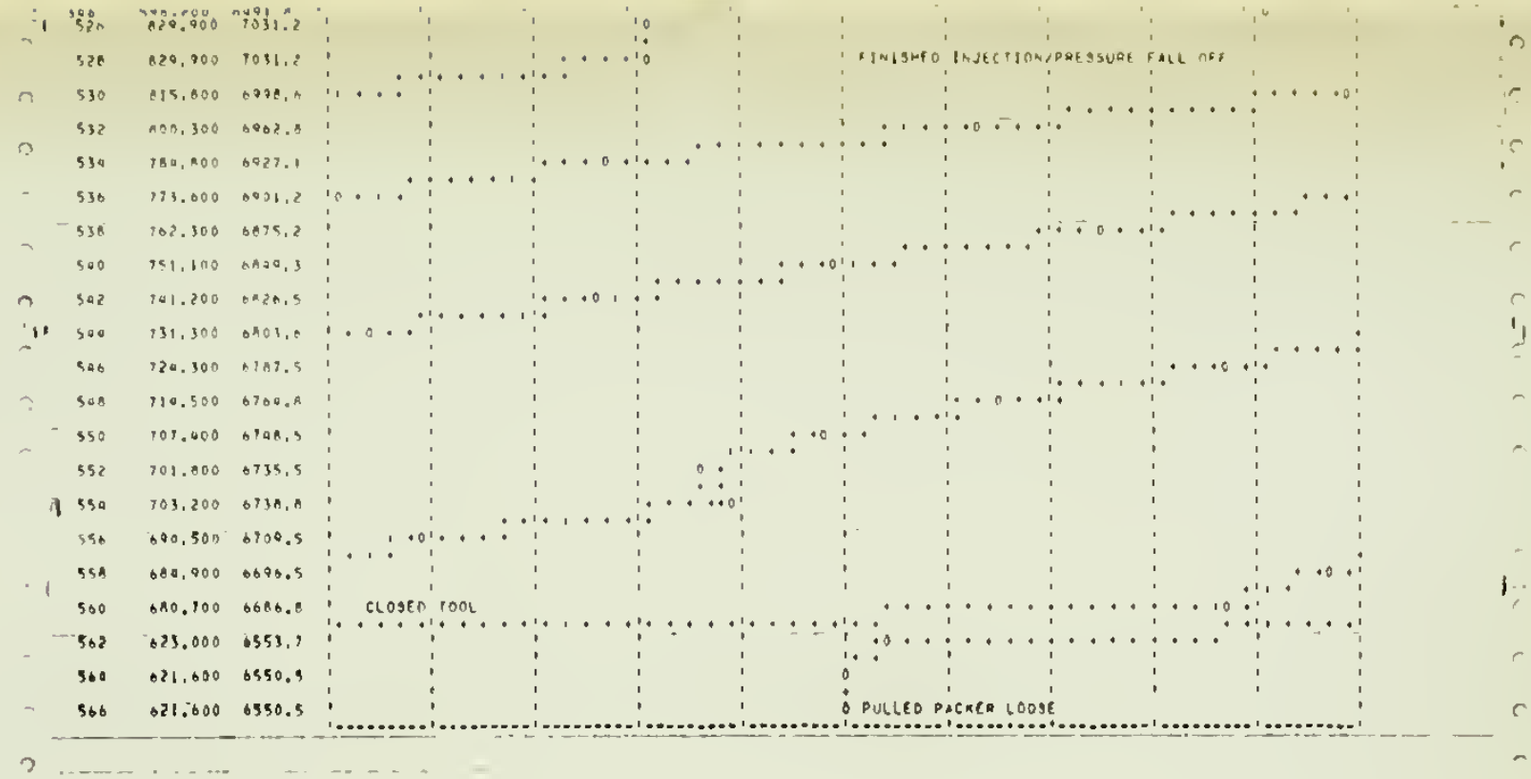
JETTING

306	596.200	6481.4
308	597.600	6495.1
350	597.600	6495.1
352	594.000	6498.3
354	590.000	6498.3
356	600.400	6501.5
358	600.400	6501.5
360	600.400	6501.5
362	600.400	6501.5
364	600.400	6501.5
366	601.000	6505.0
368	601.900	6505.0
370	603.300	6508.2
372	603.300	6508.2
374	603.300	6508.2
376	603.300	6508.2
378	603.300	6508.2
380	603.300	6508.2
382	603.300	6508.2
384	603.300	6508.2
386	603.300	6508.2
388	603.300	6508.2
390	603.300	6508.2
394	603.300	6508.2
396	603.300	6508.2
398	603.300	6508.2
400	603.300	6508.2
402	603.300	6508.2
404	603.300	6508.2
406	603.300	6508.2
408	603.300	6508.2
410	603.300	6508.2
412	604.700	6511.5
414	604.700	6511.5
416	604.700	6511.5
418	604.700	6511.5
420	604.700	6511.5
422	604.700	6511.5
424	604.700	6511.5
426	604.700	6511.5
428	604.700	6511.5
430	604.700	6511.5
432	604.700	6511.5
434	604.700	6511.5
436	604.700	6511.5
438	604.700	6511.5
440	604.700	6511.5
442	604.700	6511.5
444	604.700	6511.5
446	604.700	6511.5
448	604.700	6511.5
450	604.700	6511.5
451	604.700	6511.5
452	608.900	6521.2
454	614.500	6534.1
456	620.200	6547.2
458	624.400	6556.9
460	628.600	6566.6
462	632.800	6576.3
464	637.000	6586.0
466	638.900	6592.7
468	642.700	6599.2
470	646.000	6608.8
472	653.900	6625.0
474	658.200	6634.9
476	663.800	6647.8
478	669.400	6660.8
480	673.600	6670.5
482	679.300	6683.8
484	682.100	6690.1
486	686.300	6699.8
488	680.100	6706.2
489	600.500	6709.5
490	700.400	6732.1
492	715.900	6768.1
494	729.400	6800.9
496	746.800	6839.9
498	758.100	6865.5
500	764.300	6891.1
502	774.200	6914.2
504	780.500	6940.2
506	794.900	6959.8
508	807.400	6974.2
510	822.800	7010.8
512	827.100	7020.7
514	827.100	7020.7
516	828.500	7027.9
518	829.900	7031.2
520	829.900	7031.2
522	829.900	7031.2
524	829.900	7031.2

STARTED INJECTION 2 GAL./MIN.

STARTED 5 GAL./MIN.

STARTED 11 GAL./MIN.



526	829,900	7031.2	
528	829,900	7031.2	
530	815,800	6998.4	
532	800,300	6962.8	
534	788,800	6927.1	
536	773,600	6901.2	
538	762,300	6875.2	
540	751,100	6839.3	
542	741,200	6826.5	
544	731,300	6801.6	
546	724,300	6787.5	
548	719,500	6769.8	
550	707,400	6748.5	
552	701,800	6735.5	
554	703,200	6738.8	
556	690,500	6709.5	
558	688,900	6696.5	
560	680,700	6686.8	
562	623,000	6553.7	
564	621,600	6550.9	
566	621,600	6550.5	

II B-1059

NOTES:

1. Upper Johnston gauge malfunction during the test.

Golder Associates

C-b TRACT HYDROLOGY

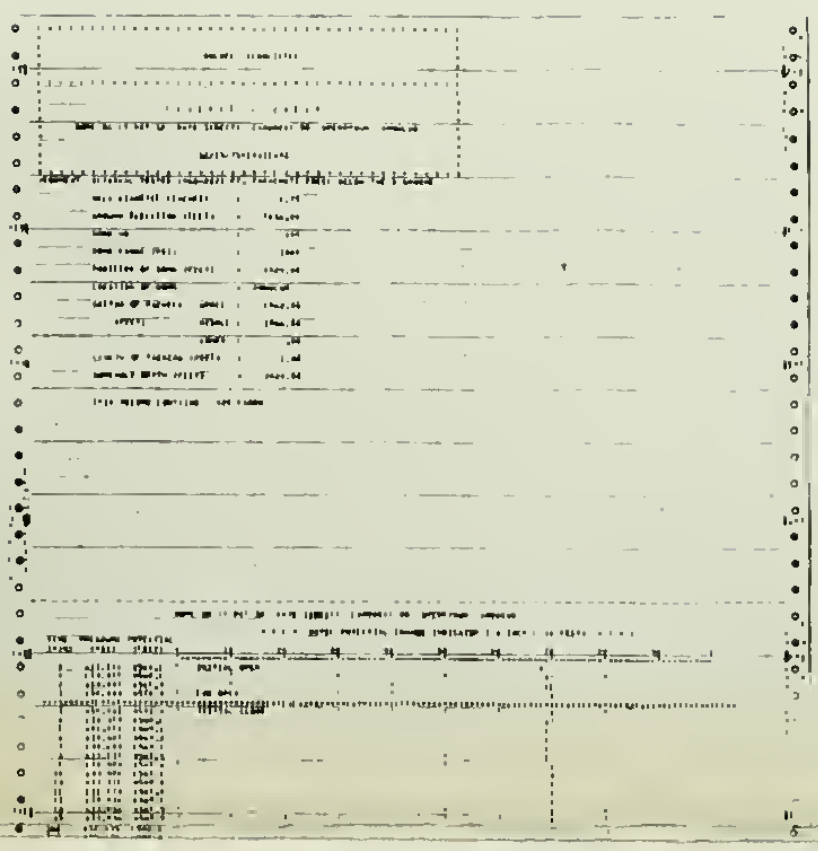
Barehole no. 17 Drill stem test no. 31

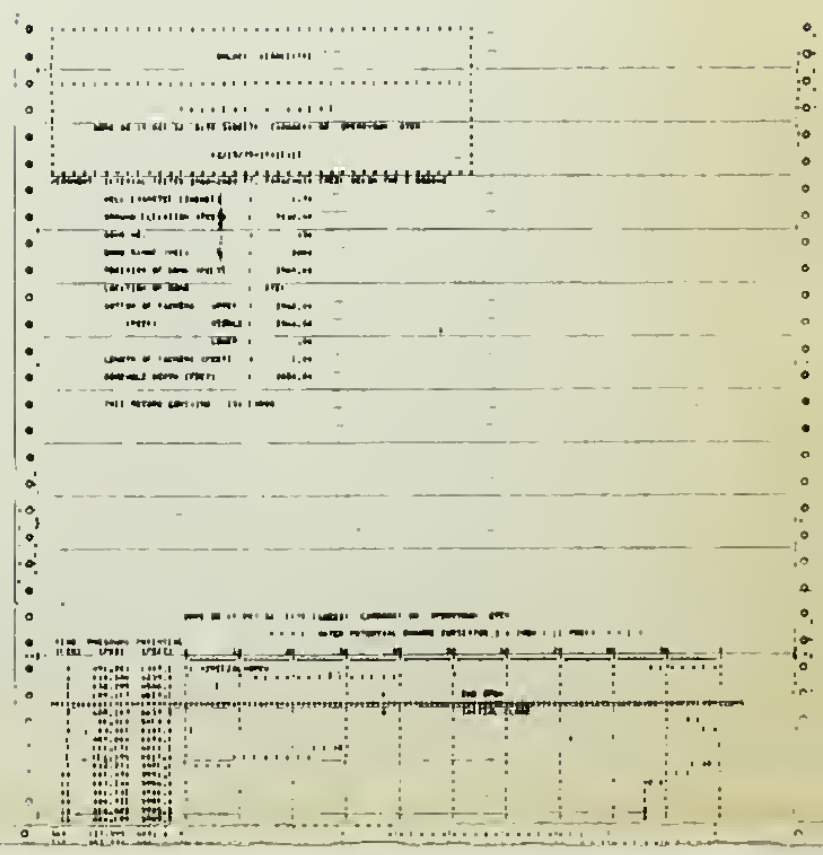
Date: Dec. 30, 1974 Interval tested: 1918-1970 ft.

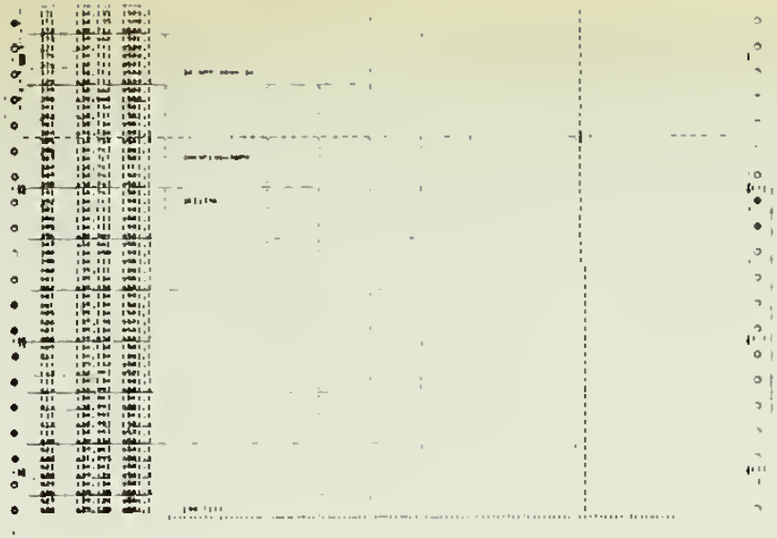
Pressure gauge: Johnston (Lower)

Formation tested: Parachute Creek below the B Groove.

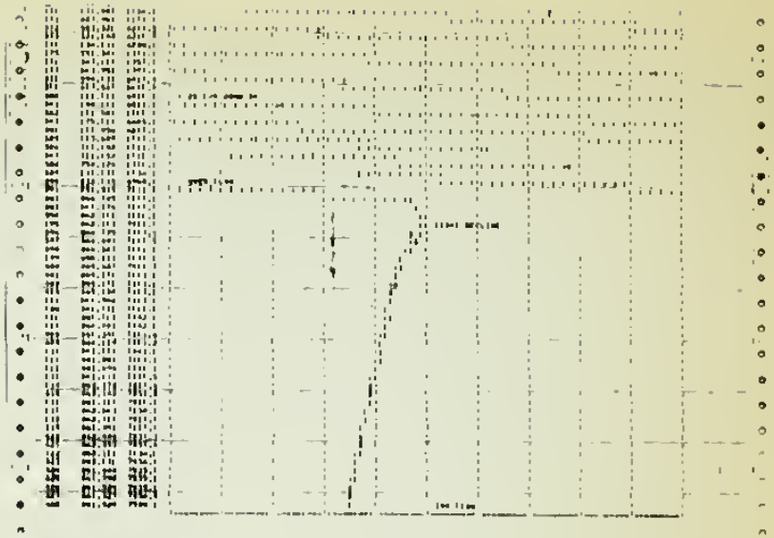
SG - 17 D.S.T. - 31







ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1060

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

Borehole no 17 Drill stem test no 32

Date: Dec. 31, 1974 Intervol tested 1968-2020ft.

Pressure gouges Sperry Sun

Formation tested Parachute Creek above the lower rich zone

SG- 17 · D.S.T.- 32

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE BG 17 DST 33 DATE 02JAN75 CARDDECK EE JOHNSTON BTEM

02/17/75-22154:17

/COMMENT INTERVAL TESTED 2018-2070 FT, PARACHUTE CREEK BELOW THE B GROOVE

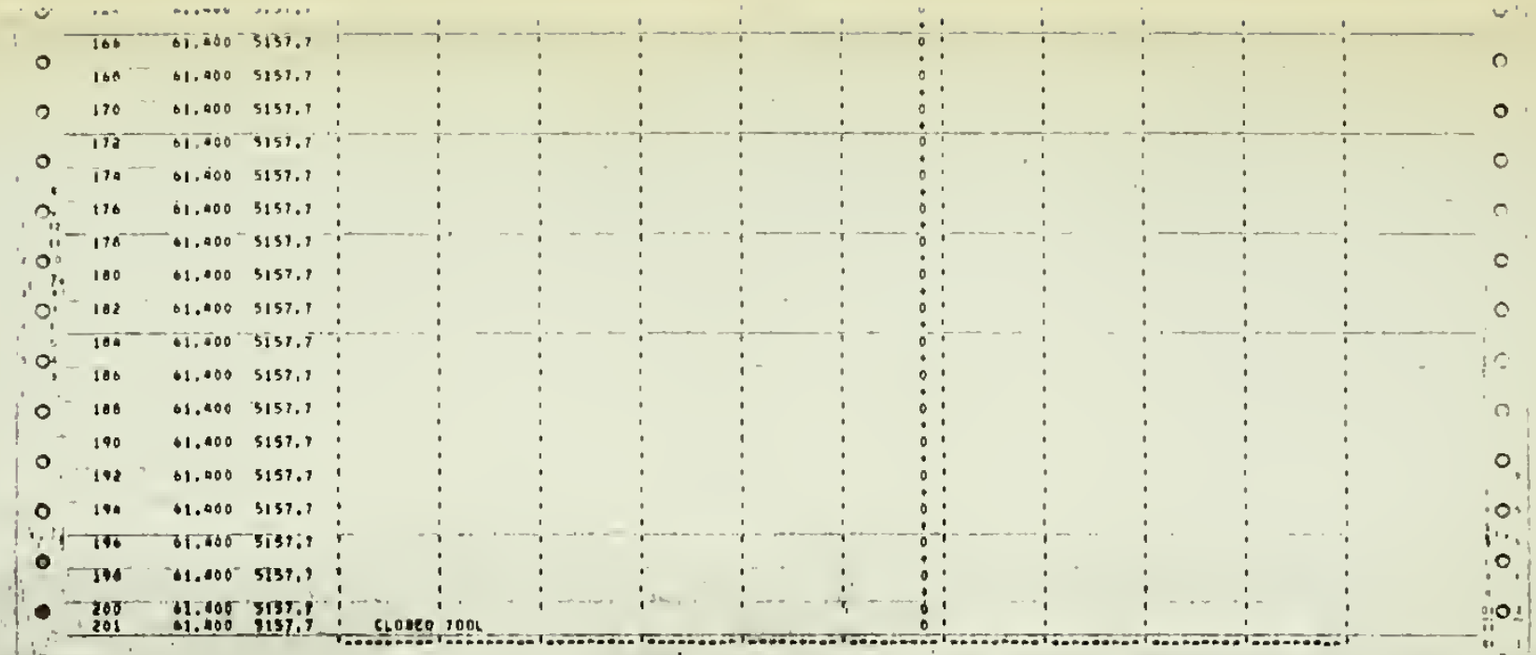
WELL DIAMETER (INCHES)		*	6.75
GROUND ELEVATION (FEET)		*	7036.00
BOMB NO.		*	4097N
BOMB RANGE (PSI)		*	2500
POSITION OF BOMB (FEET)		*	2020.00
LOCATION OF BOMB		*	BTEM
BOTTOM OF PACKERS	UPPER	*	2014.00
(FEET)	MIDDLE	*	2018.00
	LOWER	*	.00
LENGTH OF PACKERS (FEET)		*	2.00
BOREHOLE DEPTH (FEET)		*	2070.00

THIS RECORD CONTAINS 29 CARDS

BORE 8G 17 DST 33 DATE 02JAN75 CARDDECK EE JOHNSTON STEH

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	36.100	5099.3	TOOL OPENED
2	43.100	5115.5	INITIAL SHUT-IN
4	684.300	6145.2	
6	783.400	6823.8	
8	784.800	6827.1	
10	784.100	6837.0	
12	791.900	6843.5	
14	793.300	6846.7	
16	790.700	6849.9	
18	790.700	6849.9	
20	790.700	6849.9	
22	790.700	6849.9	
24	797.500	6856.8	
26	796.100	6853.2	
28	790.700	6844.4	
30	790.700	6844.9	
32	793.300	6846.7	
34	791.400	6843.5	
36	789.100	6837.0	
38	787.600	6833.5	
39	787.600	6833.5	
40	61.400	5157.7	INITIAL FLOW END SHUT-IN
42	61.400	5157.7	
44	61.400	5157.7	
46	61.400	5157.7	
48	61.400	5157.7	
50	61.400	5157.7	
52	61.400	5157.7	
54	61.400	5157.7	
56	61.400	5157.7	
58	61.400	5157.7	
60	61.400	5157.7	
62	61.400	5157.7	
64	61.400	5157.7	
66	60.000	5150.5	
68	61.400	5157.7	
70	61.400	5157.7	
72	61.400	5157.7	
74	61.400	5157.7	
76	61.400	5157.7	
78	61.400	5157.7	
80	60.000	5150.5	
82	60.000	5150.5	
84	60.000	5150.5	
86	60.000	5150.5	
88	60.000	5150.5	
90	60.000	5150.5	
92	60.000	5150.5	
94	60.000	5150.5	
96	61.400	5157.7	
98	61.400	5157.7	
100	61.400	5157.7	
102	61.400	5157.7	
104	61.400	5157.7	
106	61.400	5157.7	
108	61.400	5157.7	
110	61.400	5157.7	
112	61.400	5157.7	
114	61.400	5157.7	
116	61.400	5157.7	
118	61.400	5157.7	
120	61.400	5157.7	
122	61.400	5157.7	
124	61.400	5157.7	
126	61.400	5157.7	
128	61.400	5157.7	
130	61.400	5157.7	
132	61.400	5157.7	
134	61.400	5157.7	
136	61.400	5157.7	
138	61.400	5157.7	
140	61.400	5157.7	
142	61.400	5157.7	
144	61.400	5157.7	
146	61.400	5157.7	
148	61.400	5157.7	
150	61.400	5157.7	
152	61.400	5157.7	
154	61.400	5157.7	
156	61.400	5157.7	
158	61.400	5157.7	
160	61.400	5157.7	
162	61.400	5157.7	



II B-1061

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 33

Date: Jan. 2, 1975 Intervol tested: 2018-2070 ft.

Pressure gouge: Johnston (Lower)

Formation tested: Parachute Creek
Lower rich zone

SG - 17 D.S.T. - 33

GOLDER ASSOCIATES

PROGRAM • CBBAP

BORE SG 17 DST 34 DATE 04JAN75 CARDDECK GG JOHNSTON STEM

02/17/75-22:55:31

/COMMENT INTERVAL TESTED 2120-2170 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)	•	6.75
GROUND ELEVATION (FEET)	•	7036.00
BOMB NO.	•	4097N
BOMB RANGE (PSI)	•	2800
POSITION OF BOMB (FEET)	•	2122.00
LOCATION OF BOMB	•	STEM
BOTTOM OF PACKERS (FEET) UPPER	•	2116.00
MIDDLE	•	2120.00
LOWER	•	.00
LENGTH OF PACKERS (FEET)	•	2.00
BOREHOLE DEPTH (FEET)	•	2170.00

THIS RECORD CONTAINS 30 CARDS

BORE 9G 17 DST 3A DATE 04JAN75 CARDOECK GG JOHNSTON BTEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	
0	152,900	5266.8	TOOL OPENED
2	175,900	5318.8	
4	501,300	6163.2	
6	656,700	6429.5	
8	702,600	6627.7	
10	808,800	6780.5	
12	806,800	6864.2	
14	865,100	6910.4	
16	867,900	6916.8	
18	869,300	6920.1	
20	874,900	6933.0	
22	877,700	6939.5	
24	874,100	6902.7	
26	880,500	6945.9	
28	883,400	6952.6	
30	884,800	6955.8	
32	886,200	6959.1	
34	886,200	6959.1	
35	285,200	5572.2	INITIAL FLOW
36	307,700	5624.1	
38	392,100	5818.8	
40	406,200	5851.0	
42	463,900	5984.5	
44	990,700	6006.8	
46	493,500	6052.8	
48	528,700	6134.1	
50	562,000	6211.8	
52	569,500	6228.2	
54	593,400	6283.0	
56	620,200	6305.2	
58	642,700	6397.2	
60	653,900	6423.0	
62	668,000	6455.5	
64	687,700	6501.0	
66	706,000	6543.2	
68	715,900	6566.1	
70	725,700	6588.7	
72	741,200	6624.5	
74	755,300	6657.0	
76	765,700	6676.0	
78	769,300	6684.3	
80	780,600	6715.4	
82	791,900	6741.5	
84	794,700	6747.9	
86	801,700	6764.1	
88	808,800	6780.5	
90	815,800	6796.6	
92	822,800	6812.8	
94	828,500	6825.9	
96	834,300	6839.5	
98	843,900	6861.5	
100	846,800	6868.2	
102	851,000	6877.8	
104	855,200	6887.5	
106	859,000	6897.2	
108	862,200	6905.7	
110	865,100	6910.4	
112	869,300	6920.1	
114	872,100	6926.5	
116	873,500	6929.8	
118	879,900	6933.0	
120	877,700	6939.5	
122	879,100	6942.7	
124	881,000	6949.2	
126	881,900	6949.2	
128	889,800	6955.8	
130	886,200	6959.1	
132	887,600	6962.3	
134	889,000	6965.5	
136	889,000	6965.5	
138	896,000	6968.8	
140	891,800	6972.0	
142	893,200	6975.2	
144	894,600	6978.5	
146	896,000	6981.7	
148	896,800	6981.7	

150	896.000	6981.7
152	897.900	6988.9
154	898.800	6988.2
156	898.800	6988.2
158	900.200	6991.0
160	900.200	6991.0
162	901.700	6996.8
164	903.100	6998.1
166	903.100	6998.1
168	904.500	7001.3
170	904.500	7001.3
172	904.500	7001.3
174	905.900	7004.5
176	905.900	7004.5
178	907.300	7007.8
180	907.300	7007.8
182	907.300	7007.8
184	908.700	7011.0
186	908.700	7011.0
188	910.100	7014.2
190	910.100	7014.2
192	911.500	7017.5
194	912.900	7020.7
196	914.300	7023.9
198	915.700	7027.2
200	915.700	7027.2
202	917.100	7030.4
204	920.000	7037.1
206	918.500	7033.6
208	918.500	7033.6
210	921.400	7040.3
212	921.400	7040.3
214	921.400	7040.3
216	921.400	7040.3
218	922.800	7043.5
220	922.800	7043.5
222	922.800	7043.5
224	924.100	7046.5
226	924.100	7046.5
228	924.100	7046.5
230	924.100	7046.5
232	924.100	7046.5
234	924.200	7046.8
236	924.200	7046.8
238	924.200	7046.8
240	952.300	7111.6
242	746.800	6637.0
243	737.000	6614.8
244	725.700	6588.7
246	720.100	6575.8
248	717.300	6569.3
250	717.300	6569.3
252	714.500	6562.8
254	713.000	6559.4
256	711.600	6556.2
258	710.200	6552.9
260	707.400	6546.5
262	706.000	6543.2
264	706.000	6543.2
266	708.900	6549.9
268	708.900	6549.9
270	708.900	6549.9
272	707.400	6546.5
274	707.400	6546.5
276	707.900	6546.5
278	706.000	6543.2
280	703.200	6536.8
282	703.200	6536.8
284	706.000	6543.2
286	706.000	6543.2
288	706.000	6543.2
290	706.000	6543.2
292	706.000	6543.2
294	706.000	6543.2
296	706.000	6543.2
298	675.000	6471.7
300	708.000	6543.2
302	720.300	6585.5
304	740.000	6621.7
306	753.900	6653.8
308	767.900	6686.1
310	782.000	6718.6
312	798.900	6757.6
314	811.600	6786.9
316	819.900	6793.9
318	822.800	6812.6
320	835.500	6842.1
322	843.900	6861.5
324	846.800	6868.2
326	855.200	6887.5

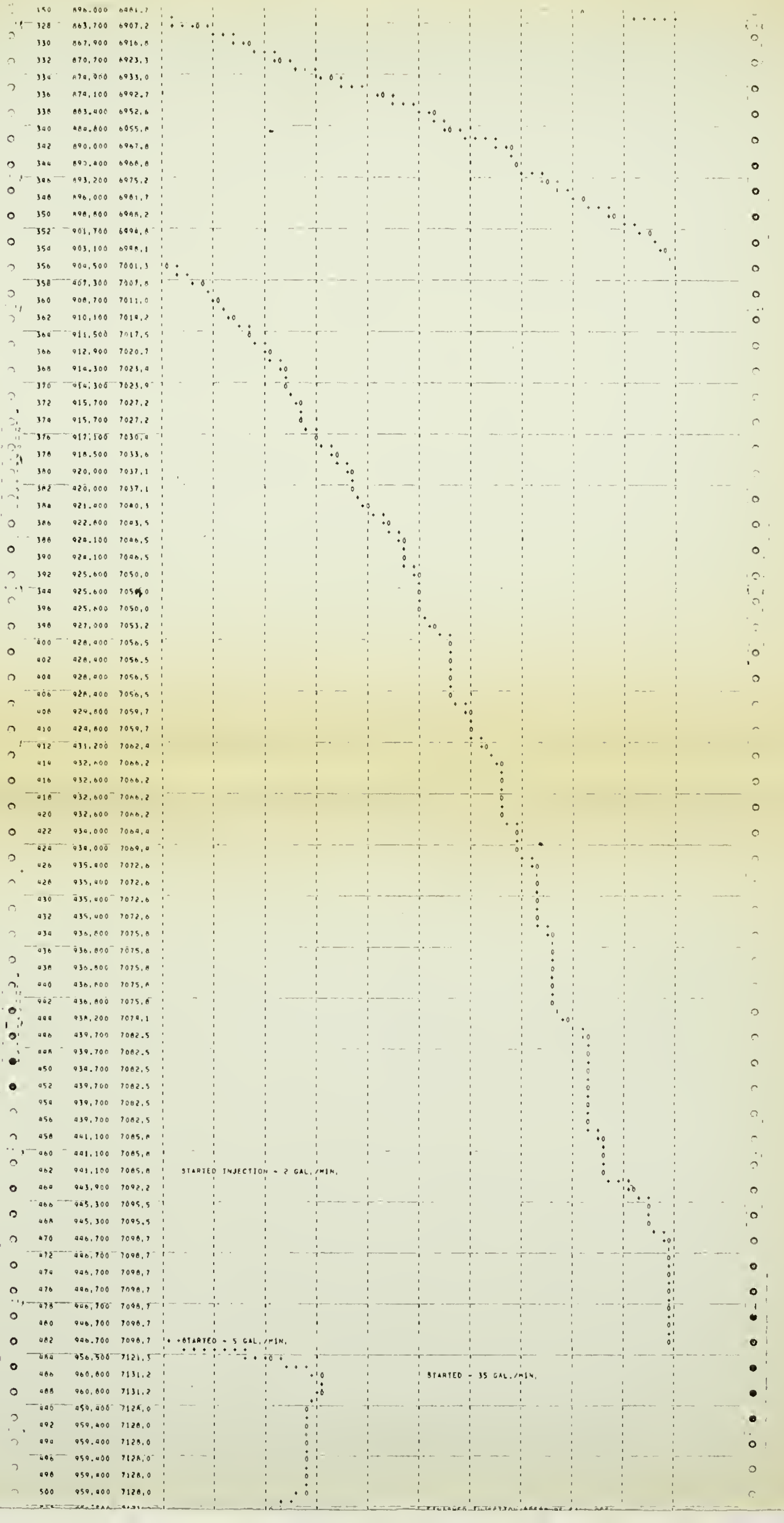
STARTED JETTING WATER

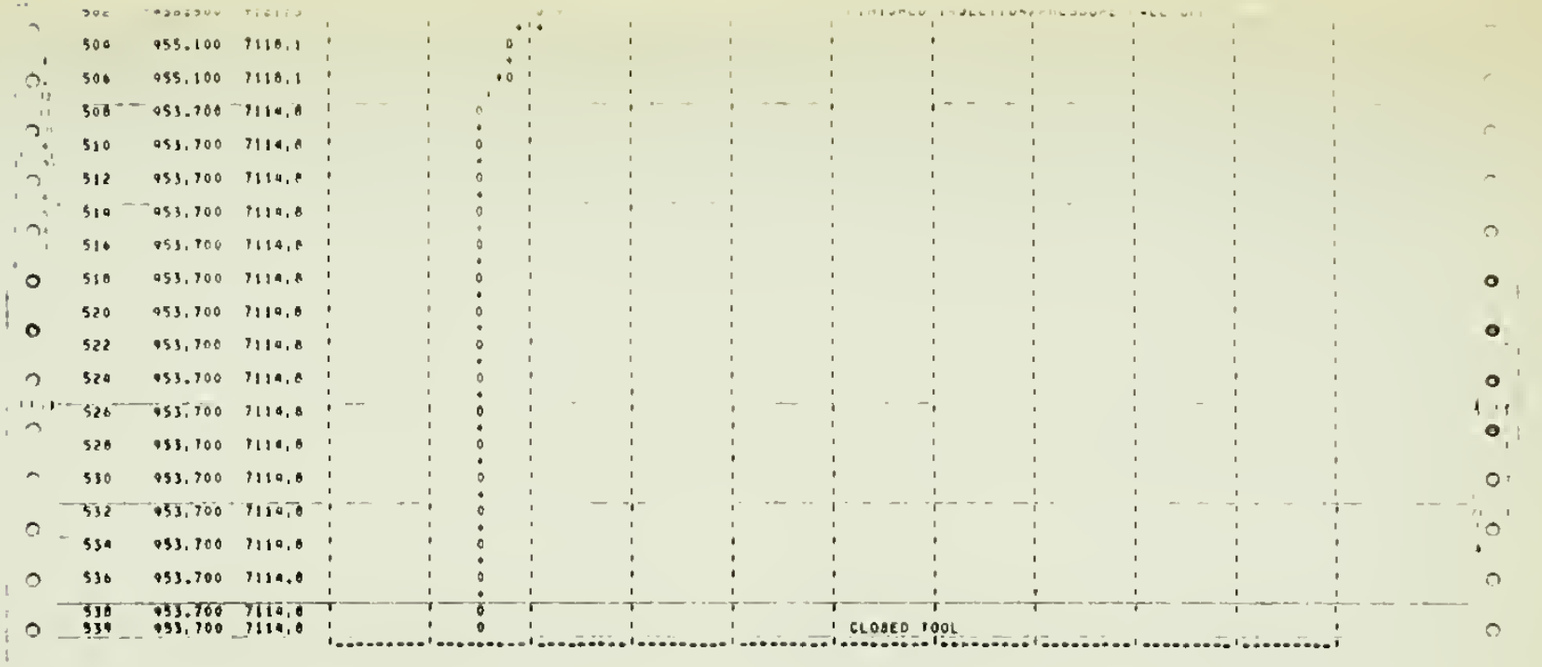
JETTING

JETTING

FINISHED JETTING

JETTING


150 896.000 6881.7
328 863.700 6907.2
330 867.900 6916.8
332 870.700 6923.3
334 873.900 6933.0
336 874.100 6992.7
338 883.400 6952.6
340 888.800 6955.8
342 890.000 6967.8
344 893.400 6968.8
346 893.200 6975.2
348 896.000 6981.7
350 898.800 6988.2
352 901.700 6994.8
354 903.100 6998.1
356 904.500 7001.3
358 907.300 7007.8
360 908.700 7011.0
362 910.100 7014.2
364 911.500 7017.5
366 912.900 7020.7
368 914.300 7023.9
370 914.300 7023.9
372 915.700 7027.2
374 915.700 7027.2
376 917.100 7030.4
378 918.500 7033.6
380 920.000 7037.1
382 920.000 7037.1
384 921.400 7040.3
386 922.800 7043.5
388 924.100 7046.5
390 924.100 7046.5
392 925.600 7050.0
394 925.600 7050.0
396 925.800 7050.0
398 927.000 7053.2
400 928.400 7056.5
402 928.400 7056.5
404 928.800 7056.5
406 928.400 7056.5
408 929.800 7059.7
410 929.800 7059.7
412 931.200 7062.9
414 932.800 7066.2
416 932.600 7066.2
418 932.600 7066.2
420 932.600 7066.2
422 934.000 7069.4
424 934.000 7069.4
426 935.400 7072.6
428 935.400 7072.6
430 935.400 7072.6
432 935.400 7072.6
434 936.800 7075.8
436 936.800 7075.8
438 936.800 7075.8
440 936.800 7075.8
442 936.800 7075.8
444 938.200 7079.1
446 939.700 7082.5
448 939.700 7082.5
450 939.700 7082.5
452 939.700 7082.5
454 939.700 7082.5
456 939.700 7082.5
458 941.100 7085.8
460 941.100 7085.8
462 941.100 7085.8
STARTED INJECTION - 2 GAL./MIN.
468 943.900 7092.2
466 945.300 7095.5
468 945.300 7095.5
470 946.700 7098.7
472 946.700 7098.7
474 946.700 7098.7
476 946.700 7098.7
478 946.700 7098.7
480 946.700 7098.7
482 946.700 7098.7
STARTED - 5 GAL./MIN.
484 956.500 7121.5
486 960.800 7131.2
488 960.800 7131.2
STARTED - 35 GAL./MIN.
490 959.400 7128.0
492 959.400 7128.0
494 959.400 7128.0
496 959.400 7128.0
498 959.400 7128.0
500 959.400 7128.0



II B-1062

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 34

Date: Jan. 4, 1975 Interval tested: 2120-2170 ft

Pressure gauge: Johnston (Lower)

Formation tested: Parachute Creek below the lower rich zone

Golder Associates

SG - 17 D.S.T. - 34

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE BG 17 DST 30 DATE 08JAN75 CARDDECK GG JOHNSTON STEM

02/17/75-22:54:36

/COMMENT INTERVAL TESTED 2120-2170 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	4633H
BOMB RANGE (PSI)		=	2600
POSITION OF BOMB (FEET)		=	2095.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	2116.00
	MIDDLE	=	2120.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00

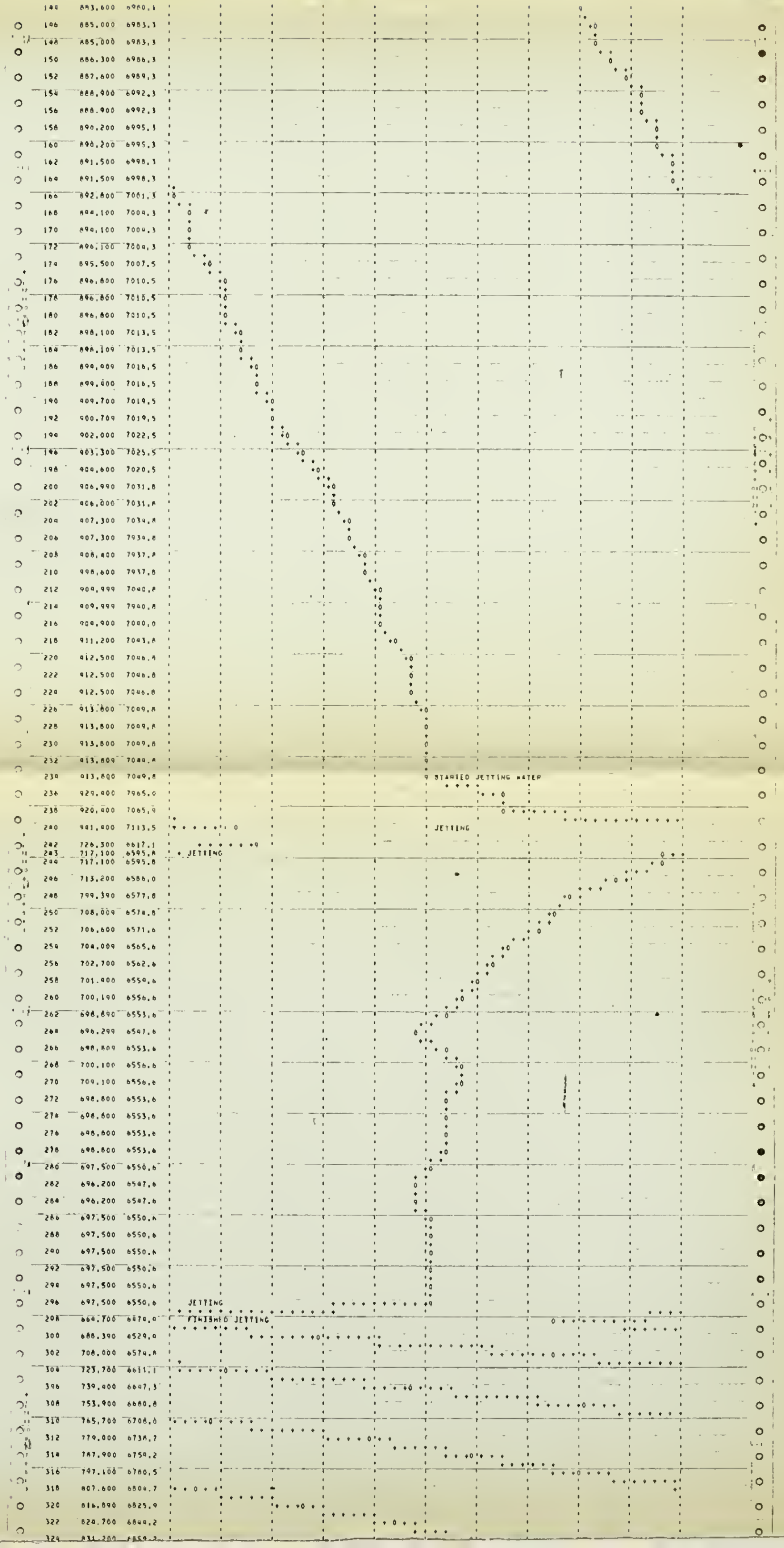
BOREHOLE DEPTH (FEET) = 2170.00

THIS RECORD CONTAINS 78 CARDS

BORE SC 17 DST 3# DATE 04JAN75 CARDOECK CO JOHNSTON BTEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	
0	133.700	5249.5	0 TOOL OPENED
2	152.000	5291.8	INITIAL SHUT-IN
4	477.200	6042.2	
6	635.800	6408.2	
8	725.000	6614.1	
10	784.000	6750.2	
12	820.700	6834.2	
14	841.700	6883.0	
16	852.200	6907.6	
18	858.700	6922.6	
20	862.700	6931.8	
22	865.300	6937.8	
24	867.900	6943.8	
26	870.500	6949.8	
28	873.200	6956.1	
30	874.500	6959.1	
32	877.100	6965.1	
34	878.400	6968.1	
35	263.500	5549.1	END SHUT-IN
36	284.400	5597.3	0 INITIAL FLOW
38	329.000	5700.2	
40	368.400	5791.2	
42	411.600	5890.8	
44	441.800	5960.5	
46	475.800	6039.0	
48	500.800	6096.7	
50	525.700	6154.2	
52	553.200	6217.6	
54	571.600	6260.1	
56	595.200	6314.5	
58	613.600	6357.0	
60	630.600	6396.2	
62	647.600	6435.5	
64	666.000	6477.9	
66	684.400	6520.8	
68	697.500	6550.6	
70	710.600	6580.8	
72	725.000	6614.1	
74	736.800	6641.3	
76	748.600	6668.5	
78	757.800	6689.8	
80	767.000	6711.0	
82	777.400	6735.0	
84	785.300	6753.2	
86	794.500	6774.5	
88	801.100	6789.7	
90	807.400	6804.7	
92	815.500	6822.9	
94	820.700	6834.9	
96	826.000	6847.2	
98	831.200	6859.2	
100	835.100	6868.2	
102	840.400	6880.4	
104	844.300	6889.4	
106	848.300	6898.6	
108	850.900	6904.6	
110	854.800	6913.6	
112	857.400	6919.6	
114	860.100	6925.8	
116	862.700	6931.8	
118	865.300	6937.8	
120	867.900	6943.8	
122	869.200	6946.8	
124	870.500	6949.8	
126	871.900	6953.1	
128	873.200	6956.1	
130	875.800	6962.1	
132	877.100	6965.1	
134	878.400	6968.1	
136	879.700	6971.1	
138	881.000	6974.1	
140	882.300	6977.1	
142	883.600	6980.1	

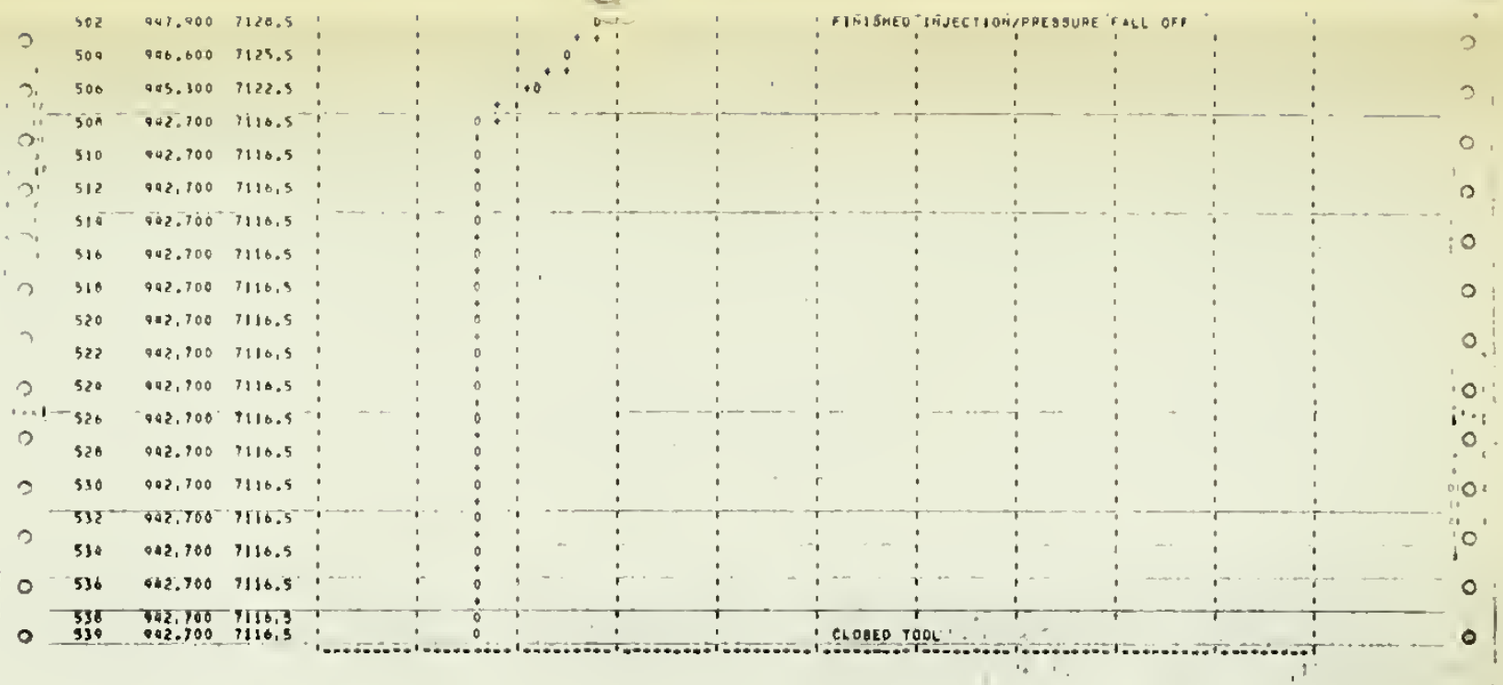

STARTED JETTING WATER
JETTING
JETTING
FINISHED JETTING

326	837.800	6879.9
328	844.300	6889.6
330	850.900	6904.6
332	857.400	6919.6
334	861.900	6928.8
336	865.300	6937.8
338	869.200	6946.8
340	871.900	6953.1
342	875.800	6962.1
344	878.400	6968.1
346	879.700	6971.1
348	883.700	6980.3
350	885.000	6983.3
352	887.600	6989.3
354	890.200	6995.3
356	892.800	7001.3
358	894.100	7004.3
360	896.800	7010.5
362	898.100	7013.5
364	899.400	7016.5
366	900.700	7019.5
368	902.000	7022.5
370	903.300	7025.5
372	904.600	7028.5
374	906.000	7031.8
376	906.000	7031.8
378	907.300	7034.8
380	908.600	7037.8
382	909.900	7040.8
384	909.900	7040.8
386	911.200	7043.8
388	911.200	7043.8
390	912.500	7046.8
392	912.500	7046.8
394	913.800	7049.8
396	913.800	7049.8
398	915.100	7052.8
400	916.400	7055.8
402	916.400	7055.8
404	916.400	7055.8
406	916.400	7055.8
408	917.800	7059.0
410	919.100	7062.0
412	919.100	7062.0
414	919.100	7062.0
416	920.400	7065.0
418	920.400	7065.0
420	920.900	7065.0
422	921.700	7068.0
424	921.700	7068.0
426	923.000	7071.0
428	923.000	7071.0
430	923.000	7071.0
432	924.300	7074.0
434	924.300	7074.0
436	924.300	7074.0
438	925.600	7077.0
440	925.600	7077.0
442	925.600	7077.0
444	926.900	7080.0
446	926.900	7080.0
448	926.900	7080.0
450	928.200	7083.0
452	928.200	7083.0
454	928.200	7083.0
456	929.600	7086.2
458	929.600	7086.2
460	929.600	7086.2
462	929.600	7086.2
464	930.900	7089.2
466	932.200	7092.2
468	933.500	7095.2
470	934.800	7098.2
472	934.800	7098.2
474	934.800	7098.2
476	934.800	7098.2
478	934.800	7098.2
480	934.800	7098.2
482	934.800	7098.2
484	942.700	7116.5
486	947.900	7128.5
488	947.900	7128.5
490	947.900	7128.5
492	947.900	7128.5
494	947.900	7128.5
496	947.900	7128.5
498	947.900	7128.5
500	947.900	7128.5

STARTED INJECTION - 2 GAL./MIN.

STARTED - 5 GAL./MIN.

STARTED - 35 GAL./MIN.



II B-1063

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 34

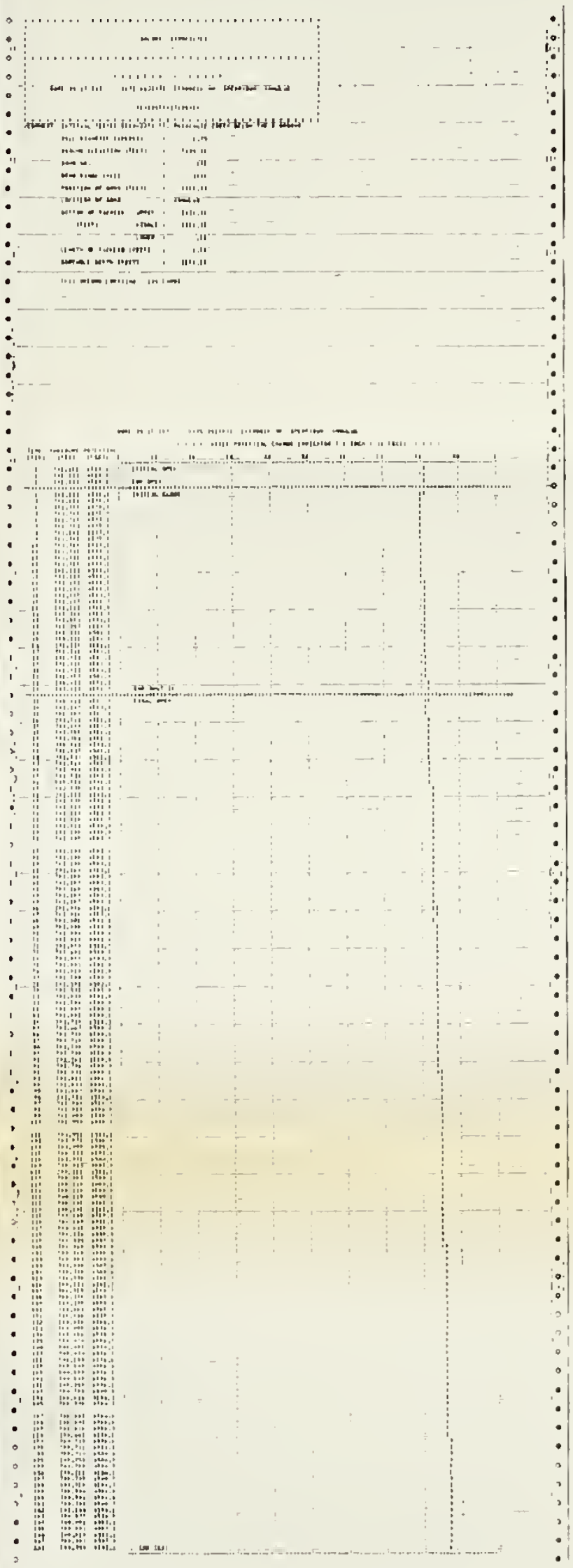
Date: Jan. 4, 1975 Interval tested: 2120-2170 ft.

Pressure gauge: Johnston (Upper)

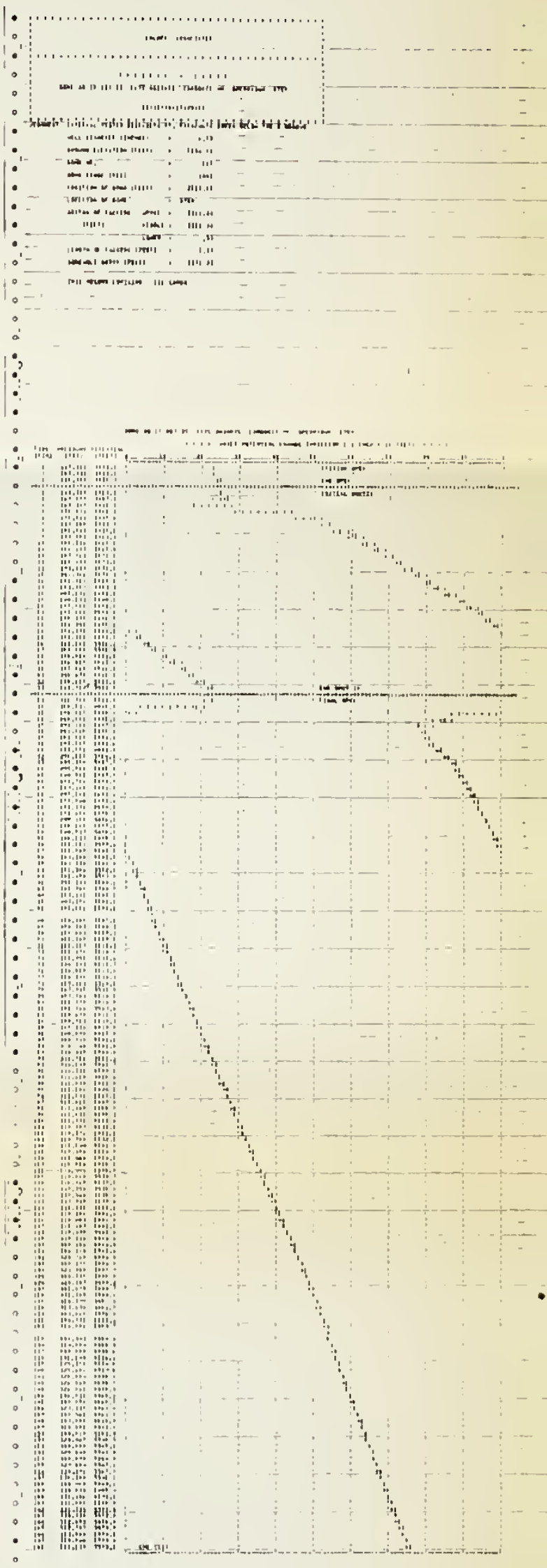
Formation tested: Parachute Creek below the lower rich zone.

Golder Associates

SG - 17 D.S.T. - 34



ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1064

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

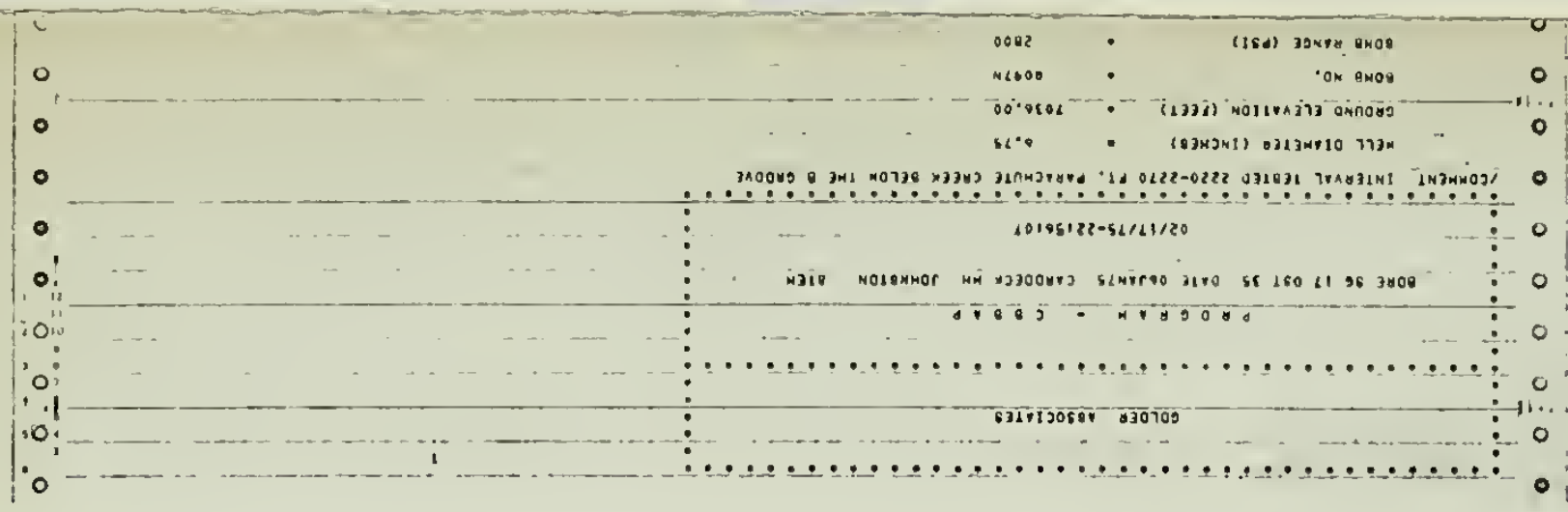
Borehole no 17 — Drill stem test no 35

Date Jan 6, 1975 — Interval tested 2220-2270

Pressure gauges Sperry Sun

Formation tested Parachute Creek below the lower rich zone

SG - 17 — D.S.T. - 35


PROGRAM - CBBAP
GOLDER ASSOCIATES
02/17/75-22156107
/COMMENT INTERVAL TESTED 2220-2270 FT. PARACHUTE CREEK BELOW THE B GROOVE
HOLE DIAMETER (INCHES) = 6.75
GROUND ELEVATION (FEET) = 7036.00
BOHB NO. = 0097N
BOHB RANGE (PSI) = 2800

POSITION OF BOMB (FEET) = 2221.00

LOCATION OF BOMB = BIEM

BOTTOM OF PACKERS (FEET) UPPER = 2216.00
MIDDLE = 2220.00
LOWER = .00

LENGTH OF PACKERS (FEET) = 2.00

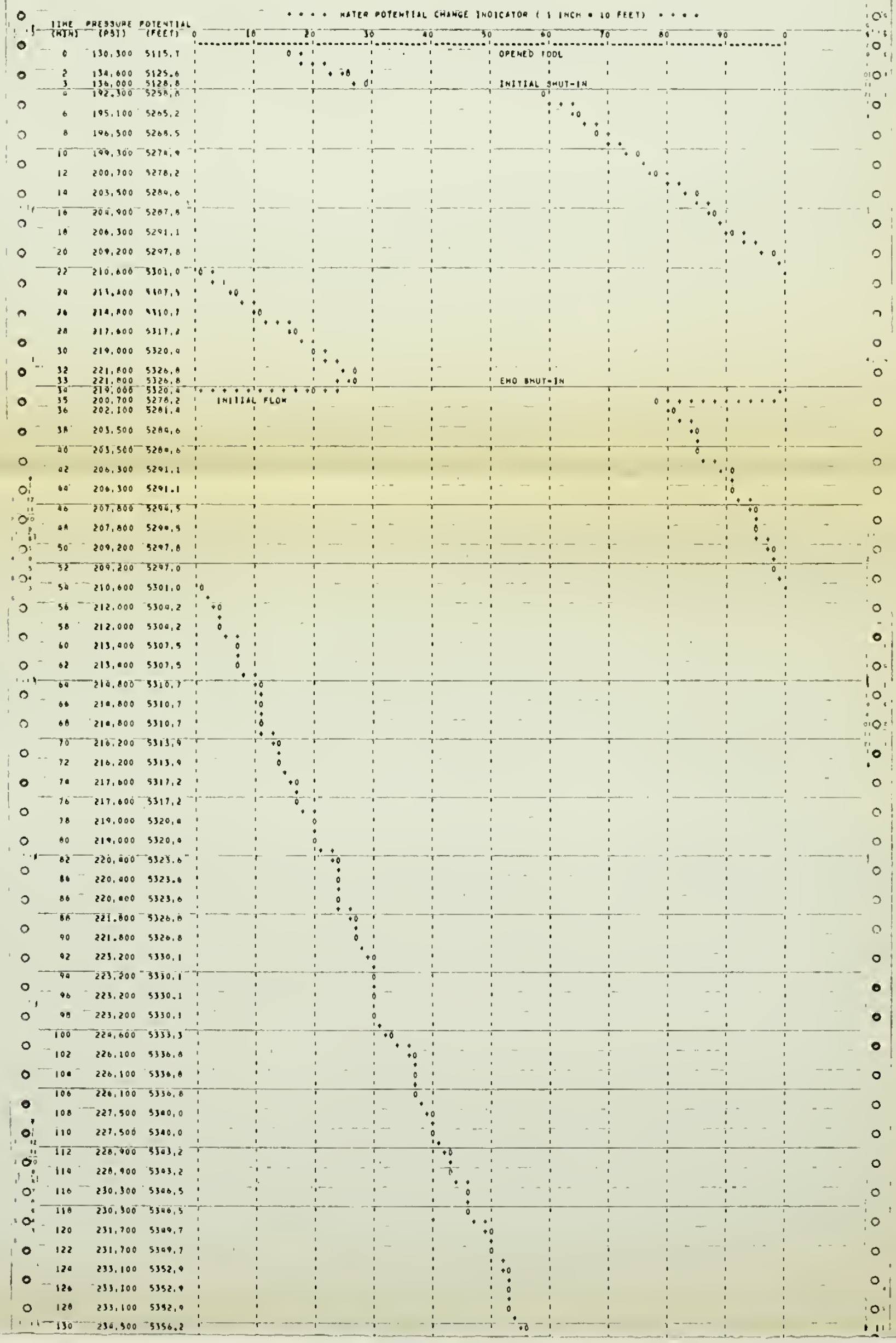
BOREHOLE DEPTH (FEET) = 2270.00

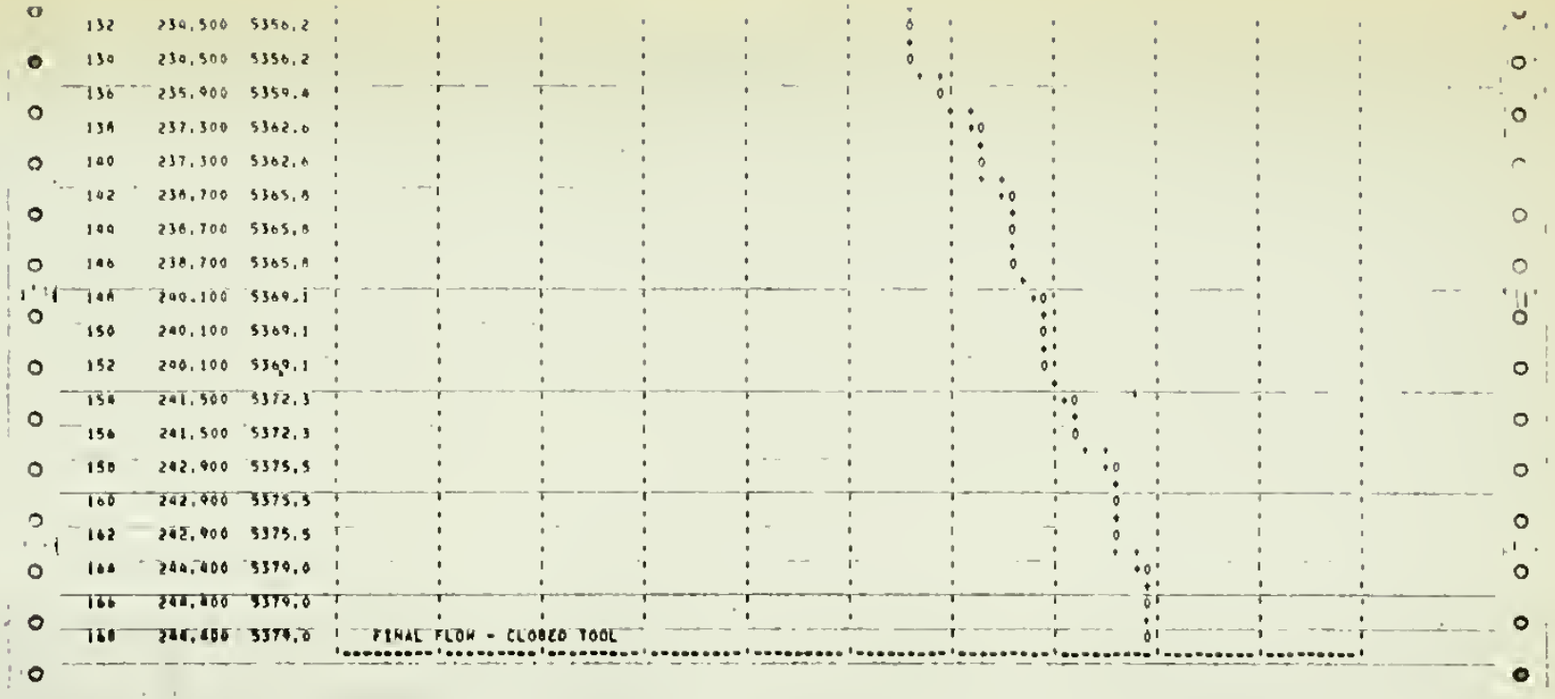
THIS RECORD CONTAINS 26 CARDS

BORE SG 17 DBT 35 DATE 66JAN75 CARDDECK NM JOHNSTON BIEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	130.300	5115.7
2	134.600	5125.6
3	136.000	5128.8
4	192.300	5258.8
6	195.100	5265.2
8	196.500	5268.5
10	199.300	5274.9
12	200.700	5278.2
14	203.500	5284.6
16	204.900	5287.8
18	206.300	5291.1
20	209.200	5297.8
22	210.600	5301.0
24	211.400	5307.5
26	214.800	5310.7
28	217.600	5317.2
30	219.000	5320.4
32	221.800	5326.8
33	221.800	5326.8
34	219.000	5320.4
35	200.700	5278.2
36	202.100	5281.4
38	203.500	5284.6
40	203.500	5284.6
42	206.300	5291.1
44	206.300	5291.1
46	207.800	5294.5
48	207.800	5294.5
50	209.200	5297.8
52	209.200	5297.8
54	210.600	5301.0
56	212.000	5304.2
58	212.000	5304.2
60	213.400	5307.5
62	213.400	5307.5
64	214.800	5310.7
66	214.800	5310.7
68	214.800	5310.7
70	216.200	5313.9
72	216.200	5313.9
74	217.600	5317.2
76	217.600	5317.2
78	219.000	5320.4
80	219.000	5320.4
82	220.400	5323.6
84	220.400	5323.6
86	220.400	5323.6
88	221.800	5326.8
90	221.800	5326.8
92	223.200	5330.1
94	223.200	5330.1
96	223.200	5330.1
98	223.200	5330.1
100	224.600	5333.3
102	226.100	5336.8
104	226.100	5336.8
106	226.100	5336.8
108	227.500	5340.0
110	227.500	5340.0
112	228.900	5343.2
114	228.900	5343.2
116	230.300	5346.5
118	230.300	5346.5
120	231.700	5349.7
122	231.700	5349.7
124	233.100	5352.9
126	233.100	5352.9
128	233.100	5352.9
130	234.500	5356.2





II B-1065

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 35

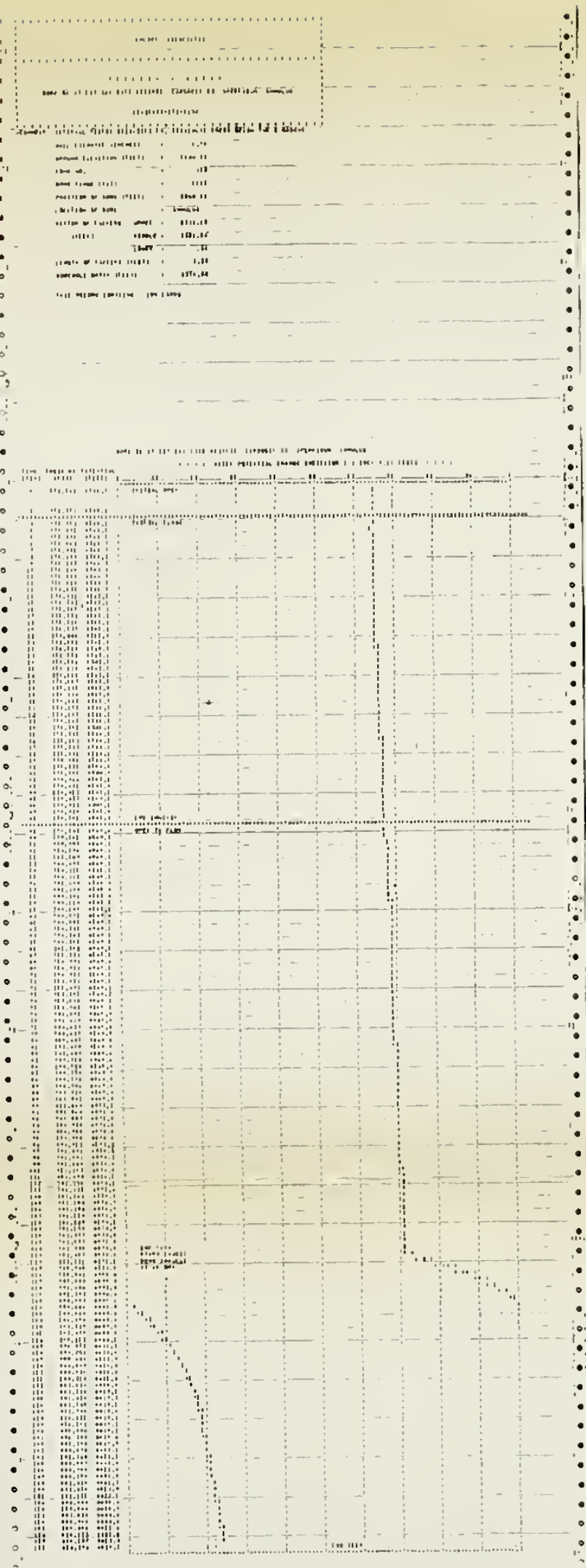
Date: Jan. 6, 1975 Interval tested: 2220-2270 ft.

Pressure gauge: Johnston (Lower)

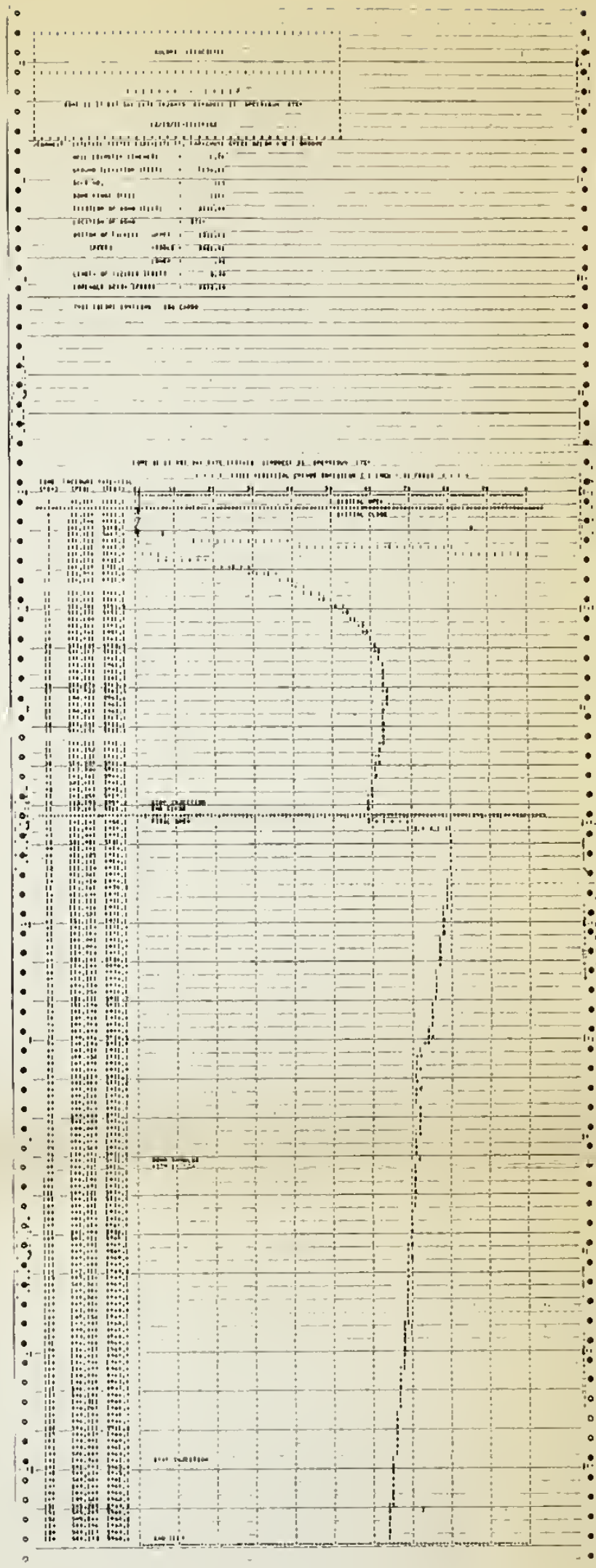
Formation tested: Parachute Creek below the lower rich zone.

Golder Associates

SG - 17 D.S.T. - 35



ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1066

NOTES:

1. This test aborted and rerun as D.S.T. 36 B

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 17 — Drill stem test no 36 A

Date: Jan. 8, 1975 — Interval tested: 2320-2370ft

Pressure gauges: Sperry Sun

Formation tested: Parachute Creek below the lower rich zone

SG- 17 — D.S.T.- 36 A

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE 86 17 DBT 36A DATE 08JAN75 CARDOECK II JOHNSTON STEM

02/17/75-22:57:13

/COMMENT INTERVAL TESTED 2320-2370 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	6633M
BOMB RANGE (PSI)	=	2600
POSITION OF BOMB (FEET)	=	2295.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS UPPER	=	2318.00

(FEET) MIDDLE = 2320.00

LOWER = .00

LENGTH OF PACKERS (FEET) = 2.00

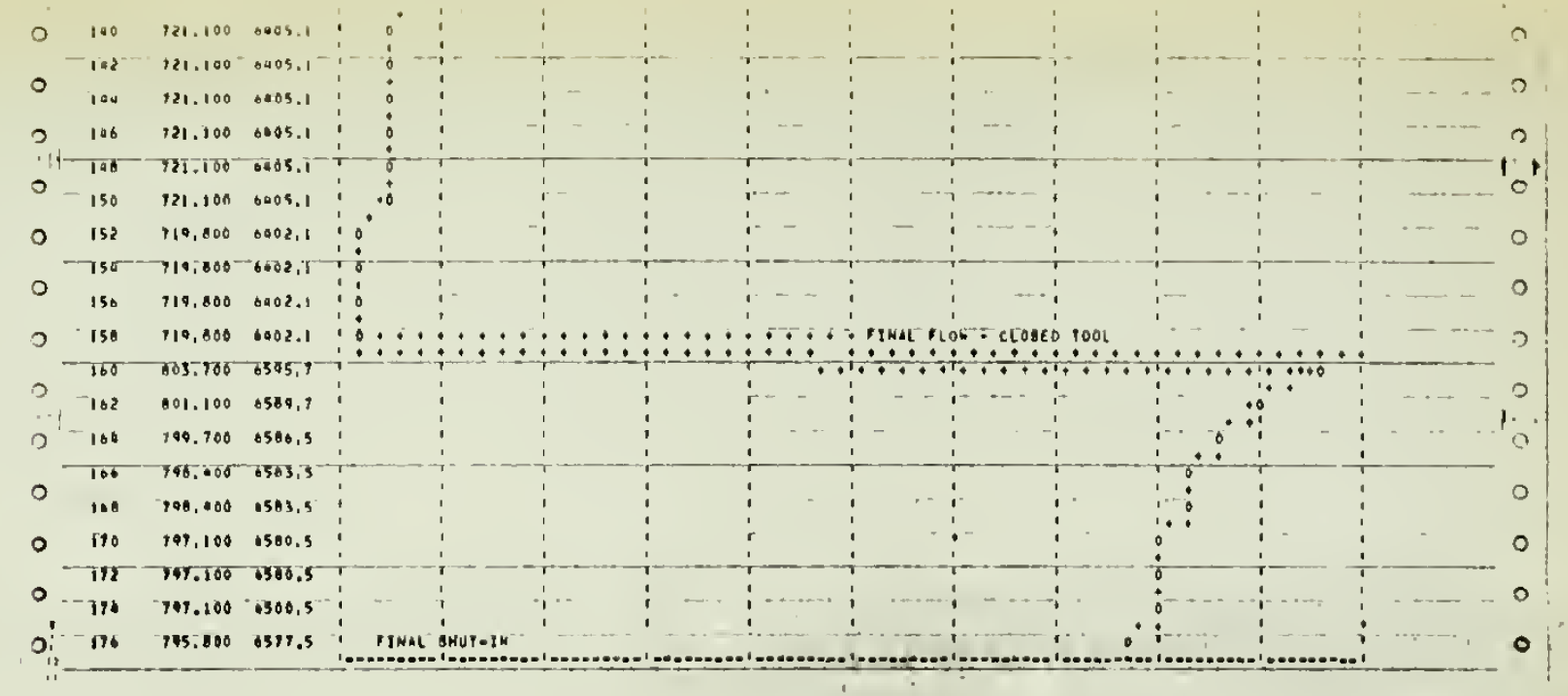
BOREHOLE DEPTH (FEET) = 2370.00

THIS RECORD CONTAINS 27 CARDS

BORE SG 17 DST 36A DATE 08JAN75 CARDDECK II JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	70.700	6904.2	OPENED TOOL
2	77.300	6919.4	
3	79.900	6925.8	INITIAL SHUT-IN
4	161.200	5113.0	
6	313.300	5868.0	
8	477.200	5842.2	
10	665.000	6229.5	
12	681.700	6314.2	
14	696.200	6347.6	
16	705.300	6368.6	
18	710.600	6380.8	
20	714.500	6389.8	
22	715.800	6392.8	
24	717.100	6395.8	
26	718.400	6398.8	
28	719.800	6402.1	
30	719.800	6402.1	
32	719.800	6402.1	
34	719.800	6402.1	
36	719.800	6402.1	
38	719.800	6402.1	
40	719.800	6402.1	
42	719.800	6402.1	
44	718.400	6398.8	
45	718.400	6398.8	END SHUT-IN
46	718.400	6398.8	
48	722.400	6408.1	
49	730.200	6426.1	INITIAL FLOW
50	730.200	6426.1	
52	730.200	6426.1	
54	730.200	6426.1	
56	730.200	6426.1	
58	730.200	6426.1	
60	730.200	6426.1	
62	730.200	6426.1	
64	728.900	6423.1	
66	728.900	6423.1	
68	728.900	6423.1	
70	728.600	6423.1	
72	727.400	6420.1	
74	727.400	6420.1	
76	727.400	6420.1	
78	727.600	6420.1	
80	727.600	6420.1	
82	724.300	6417.1	
84	725.000	6418.1	
86	725.000	6418.1	
88	725.000	6418.1	
90	725.000	6418.1	
92	725.000	6418.1	
94	725.000	6418.1	
96	725.000	6418.1	
98	725.000	6418.1	
100	725.000	6418.1	
102	725.000	6418.1	
104	725.000	6418.1	
106	725.000	6418.1	
108	725.000	6418.1	
110	723.700	6411.1	
112	723.700	6411.1	
114	723.700	6411.1	
116	723.700	6411.1	
118	723.700	6411.1	
120	723.700	6411.1	
122	723.700	6411.1	
124	723.700	6411.1	
126	723.700	6411.1	
128	722.400	6408.1	
130	722.400	6408.1	
132	722.400	6408.1	
134	722.400	6408.1	
136	722.400	6408.1	
138	722.400	6408.1	



II B-1067

NOTES:

1. Test aborted rerun as D.S.T. 36B.

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 36A

Date: Jan. 8, 1975 Interval tested: 2320-2370ft.

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek below the lower rich zone.

Golder Associates

SG-17 D.S.T. - 36A

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE SG 17 037 368 DATE 08JAN75 CARDDECK II JOHNSTON STEM

02/18/75-00120:49

/COMMENT INTERVAL TESTED 2315-2370 FT. PARACHUTE CREEK BELOW THE B GROOVE

WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	4097M
BOMB RANGE (PSI)	=	2000
POSITION OF BOMB (FEET)	=	2316.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS (FEET) UPPER	=	2311.00
MIDDLE	=	2315.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	2370.00

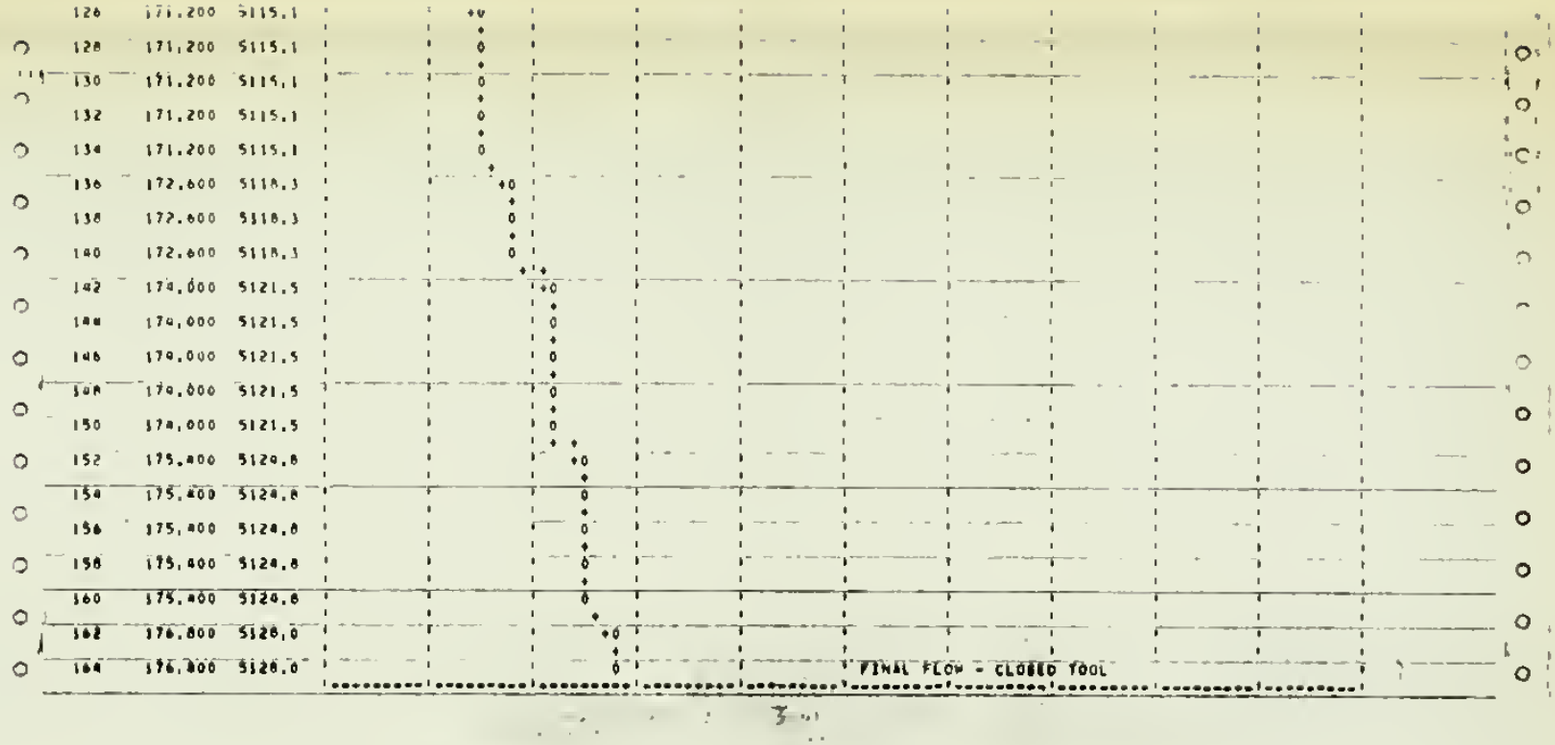
THIS RECORD CONTAINS 25 CARDS

BORE SG 17 DST 368 DATE 08JAN75 CARDDECK II JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR ( ) INCH = 10 FEET * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	
0	61.400	4861.7	OPENED TOOL
2	72.600	4887.5	INITIAL SHUT-IN
4	420.300	5689.9	
6	704.600	6306.0	
8	706.000	6308.2	
10	707.400	6752.5	
12	772.800	6811.1	
14	781.200	6870.5	
16	788.000	6836.9	
18	786.800	6883.8	
20	789.600	6889.8	
22	789.800	6889.8	
24	791.100	6853.3	
26	791.100	6853.3	
28	792.500	6856.5	
30	792.500	6856.5	
32	793.900	6859.8	
34	793.900	6859.8	
36	92.300	4933.0	END SHUT-IN
38	121.900	5001.7	
40	126.100	5011.0	
42	131.800	5024.2	
44	136.000	5033.8	
46	138.800	5040.3	
48	141.600	5046.8	
50	144.400	5053.2	
52	147.200	5059.7	
54	148.600	5062.9	
56	150.000	5066.2	
58	150.000	5066.2	
60	150.000	5066.2	
62	151.300	5069.6	
64	152.400	5072.8	
66	152.900	5072.8	
68	154.300	5076.1	
70	155.700	5079.3	
72	155.700	5079.3	
74	155.700	5079.3	
76	157.100	5082.5	
78	158.500	5085.8	
80	158.500	5085.8	
82	159.900	5089.0	
84	159.900	5089.0	
86	161.300	5092.2	
88	161.300	5092.2	
90	161.300	5092.2	
92	162.700	5095.5	
94	162.700	5095.5	
96	162.700	5095.5	
98	164.100	5098.7	
100	164.100	5098.7	
102	165.500	5101.9	
104	165.500	5101.9	
106	165.500	5101.9	
108	166.900	5105.2	
110	166.900	5105.2	
112	166.900	5105.2	
114	168.300	5108.4	
116	168.300	5108.4	
118	169.800	5111.8	
120	169.800	5111.8	
122	169.800	5111.8	
120	169.800	5111.8	

INITIAL FLOW



II B-1068

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 — Drill stem test no. 36 B

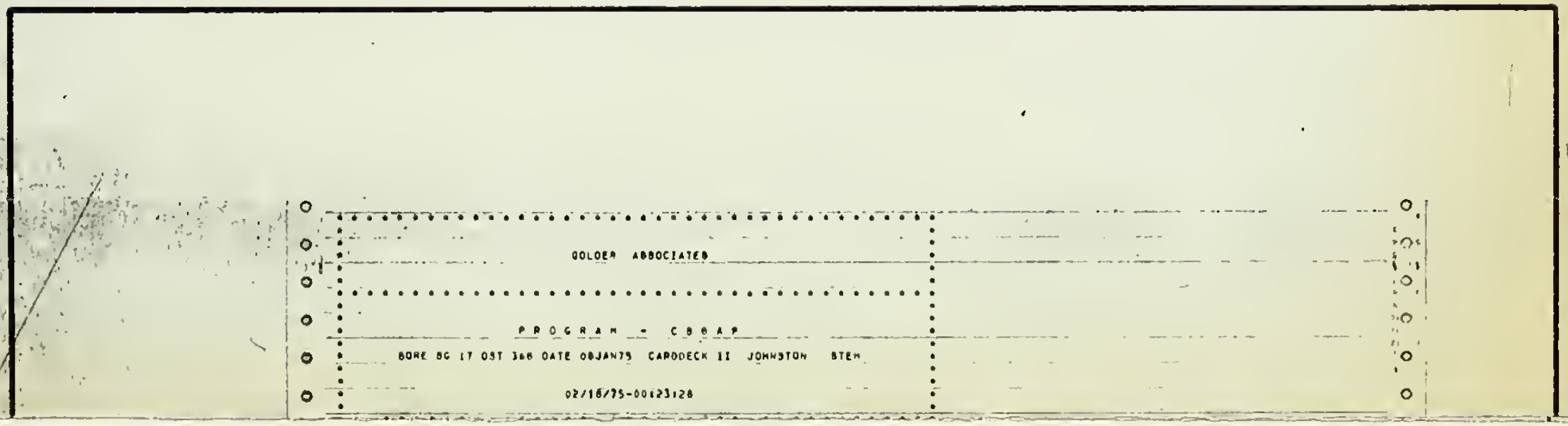
Date: Jan. 8, 1975 — Interval tested: 2315-2370 ft.

Pressure gauge: Johnston (Lower)

Formation tested: Parachute Creek below the lower rich zone

Golder Associates

SG - 17 — D.S.T. - 36 B


GOLDER ASSOCIATES
PROGRAM - CBOAP
BORE BG 17 OST 366 DATE 08JAN75 CARDDECK 11 JOHNSTON BTEM
02/18/75-00:23:28

/COMMENT INTERVAL TESTED 2315-2370 FT, PARACHUTE CREEK BELOW THE B GROOVE

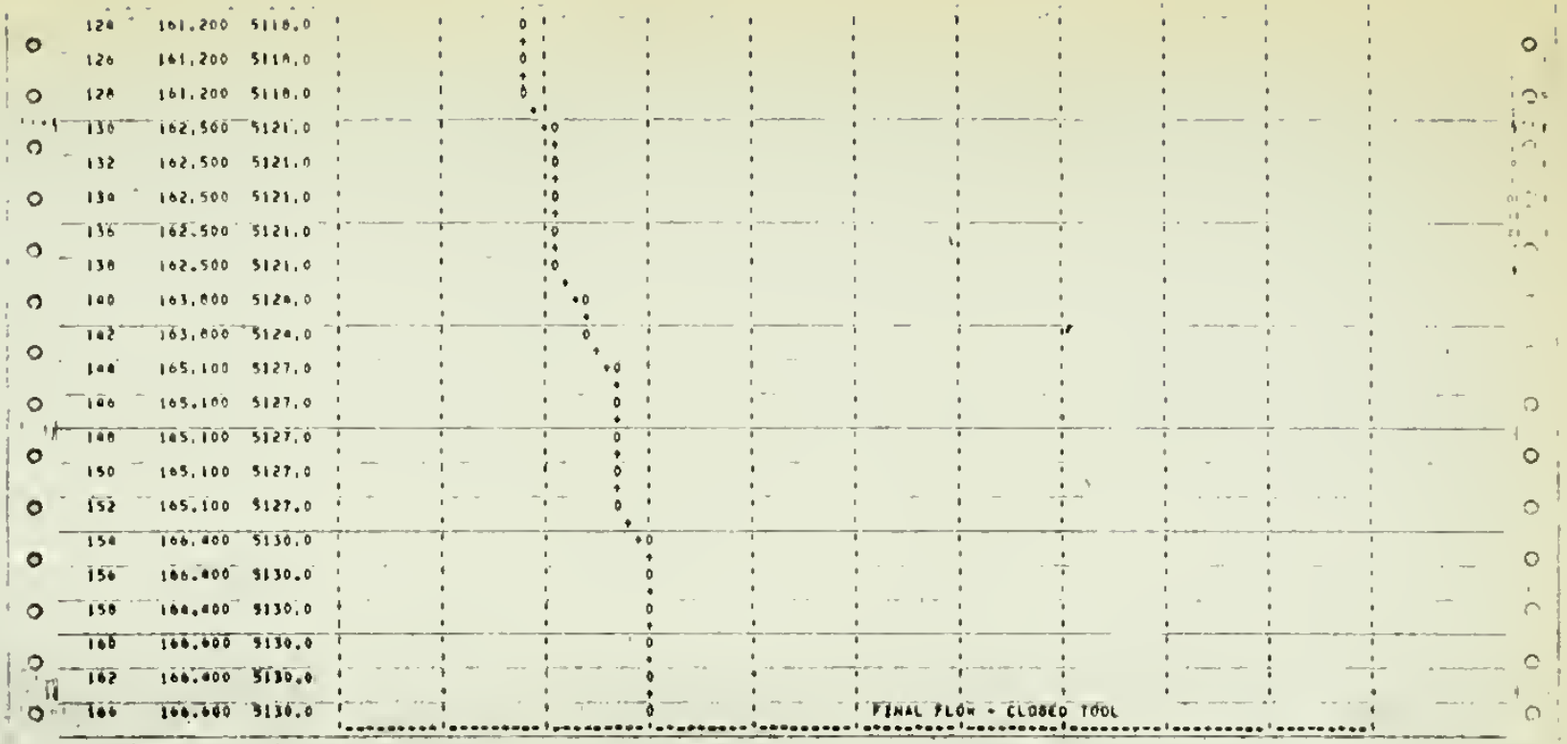
WELL DIAMETER (INCHES)		=	6.75
GROUND ELEVATION (FEET)		=	7036.00
BOMB NO.		=	8833N
BOMB RANGE (PSI)		=	2600
POSITION OF BOMB (FEET)		=	2290.00
LOCATION OF BOMB		=	STEM
BOTTOM OF PACKERS (FEET)	UPPER	=	2311.00
	MIDDLE	=	2315.00
	LOWER	=	.00
LENGTH OF PACKERS (FEET)		=	2.00
BOREHOLE DEPTH (FEET)		=	2370.00

THIS RECORD CONTAINS 25 CARDS

BORE 5G 17 DST 368 DATE 08JAN75 CARODECK II JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	53.700	8869.9
2	72.000	8912.2
4	180.900	5163.5
6	610.500	5719.1
8	634.500	6210.2
10	693.500	6346.4
12	710.600	6385.8
14	721.100	6410.1
16	726.300	6422.1
18	726.900	6428.1
20	731.600	6439.3
22	734.200	6446.3
24	735.500	6443.3
26	736.800	6446.3
28	736.800	6446.3
30	736.800	6446.3
32	736.800	6446.3
34	736.800	6446.3
36	72.000	8912.2
38	112.700	5006.1
40	119.200	5021.1
42	123.200	5030.3
44	127.100	5039.3
46	129.700	5045.3
48	132.300	5051.3
50	135.000	5057.5
52	137.600	5063.5
54	138.900	5066.5
56	141.500	5072.5
58	142.800	5075.5
60	142.800	5075.5
62	144.100	5078.5
64	144.100	5078.5
66	145.500	5081.8
68	146.800	5084.8
70	148.100	5087.8
72	148.100	5087.8
74	148.100	5087.8
76	149.400	5090.8
78	149.400	5090.8
80	150.700	5093.8
82	150.700	5093.8
84	152.000	5096.8
86	153.300	5099.8
88	153.300	5099.8
90	153.300	5099.8
92	154.600	5102.8
94	154.600	5102.8
96	155.900	5105.8
98	155.900	5105.8
100	155.900	5105.8
102	157.300	5109.0
104	157.300	5109.0
106	157.300	5109.0
108	158.600	5112.0
110	158.600	5112.0
112	158.600	5112.0
114	158.600	5112.0
116	159.900	5115.0
118	159.900	5115.0
120	159.900	5115.0
122	161.200	5118.0



II B-1069

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 — Drill stem test no. 36 B

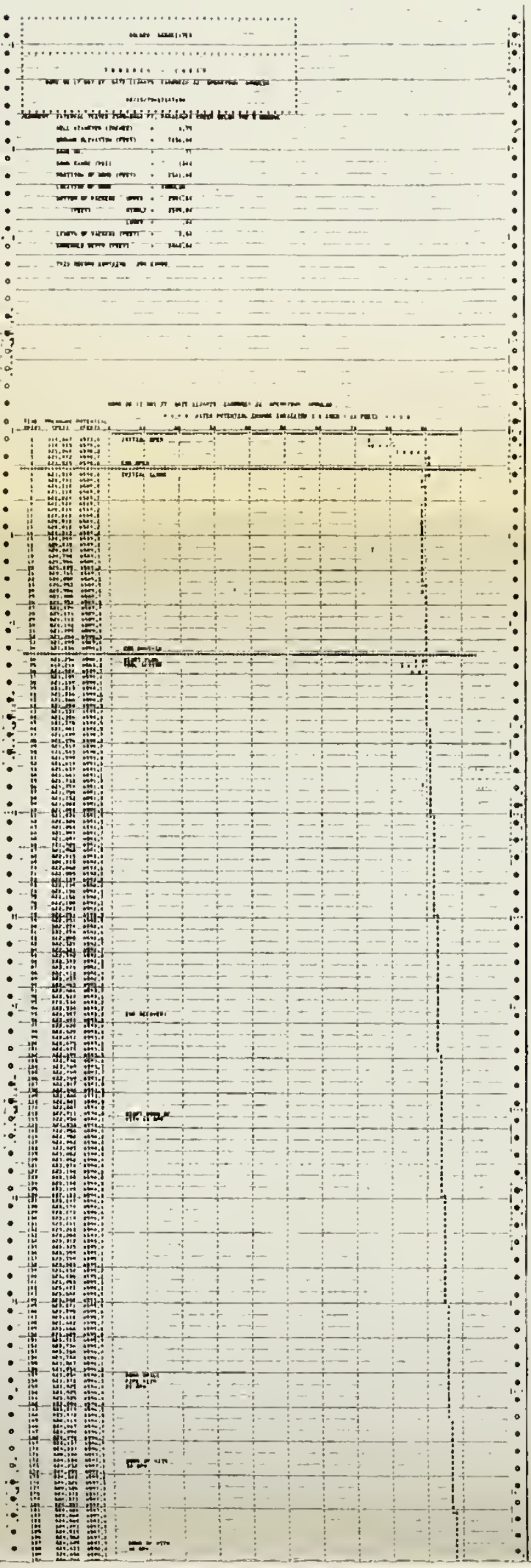
Date: Jan. 8, 1975 — Interval tested: 2315-2370 ft.

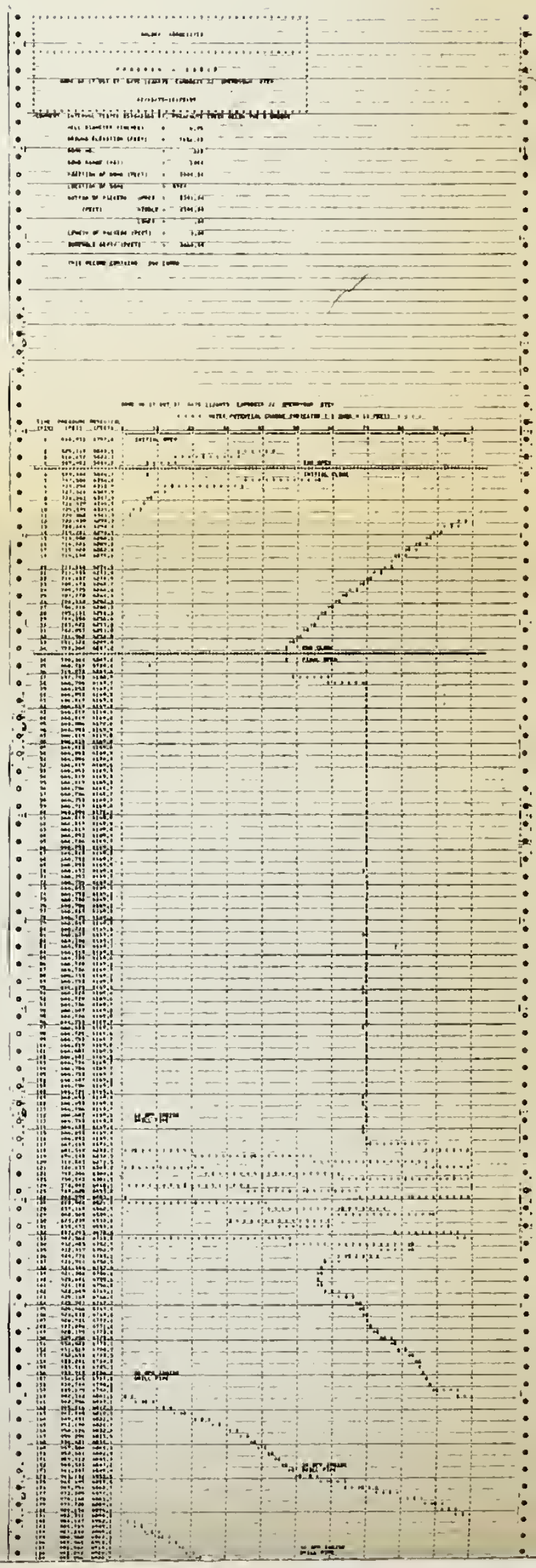
Pressure gauge: Johnston (Upper)

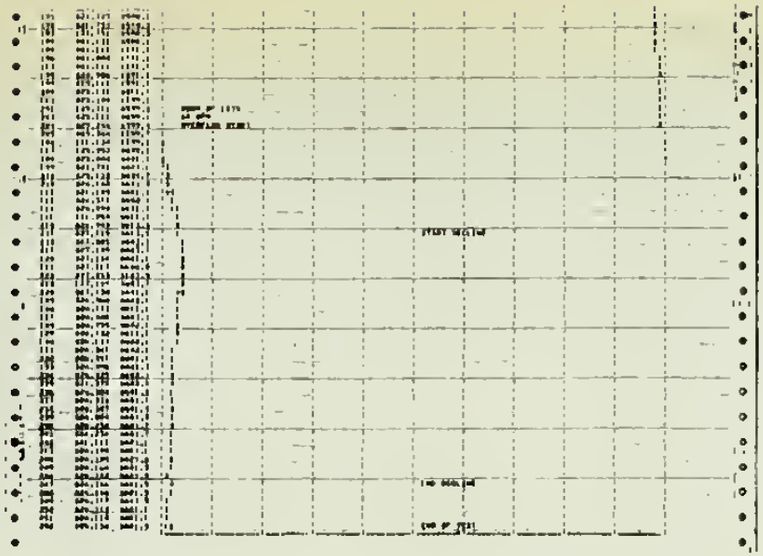
Formation tested: Parachute Creek below the lower rich zone

Golder Associates

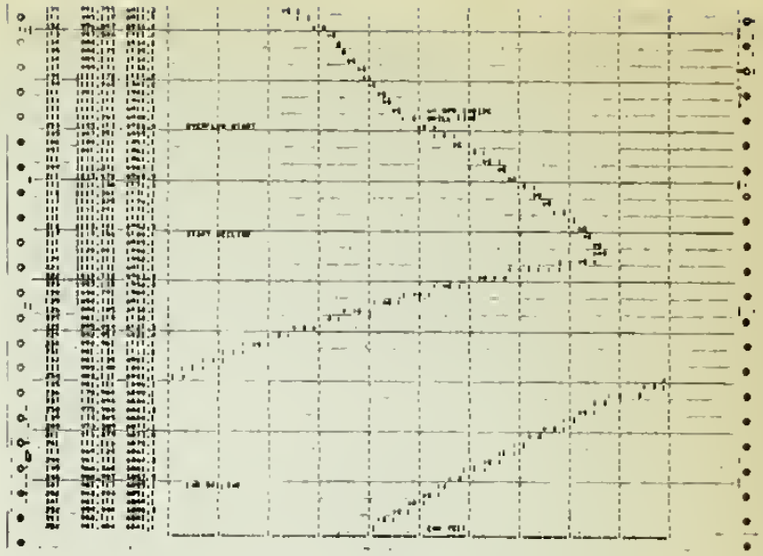
SG - 17 — D.S.T. - 36 B







ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1070

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 37

Date: Jan. 11, 1975 Interval tested. 2395-2460ft.

Pressure gauges: Sperry Sun

Formation tested. Garden Gulch

SG-17 D.S.T.-37

Golder Associates

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE SG 17 DST 3T DATE 11JAN75 CARODECK JJ JOHNSTON STEM

02/10/75-00121136

/COMMENT INTERVAL TESTED 2305-2460 FT, PARACHUTE CREEK BELOW THE B GROOVE

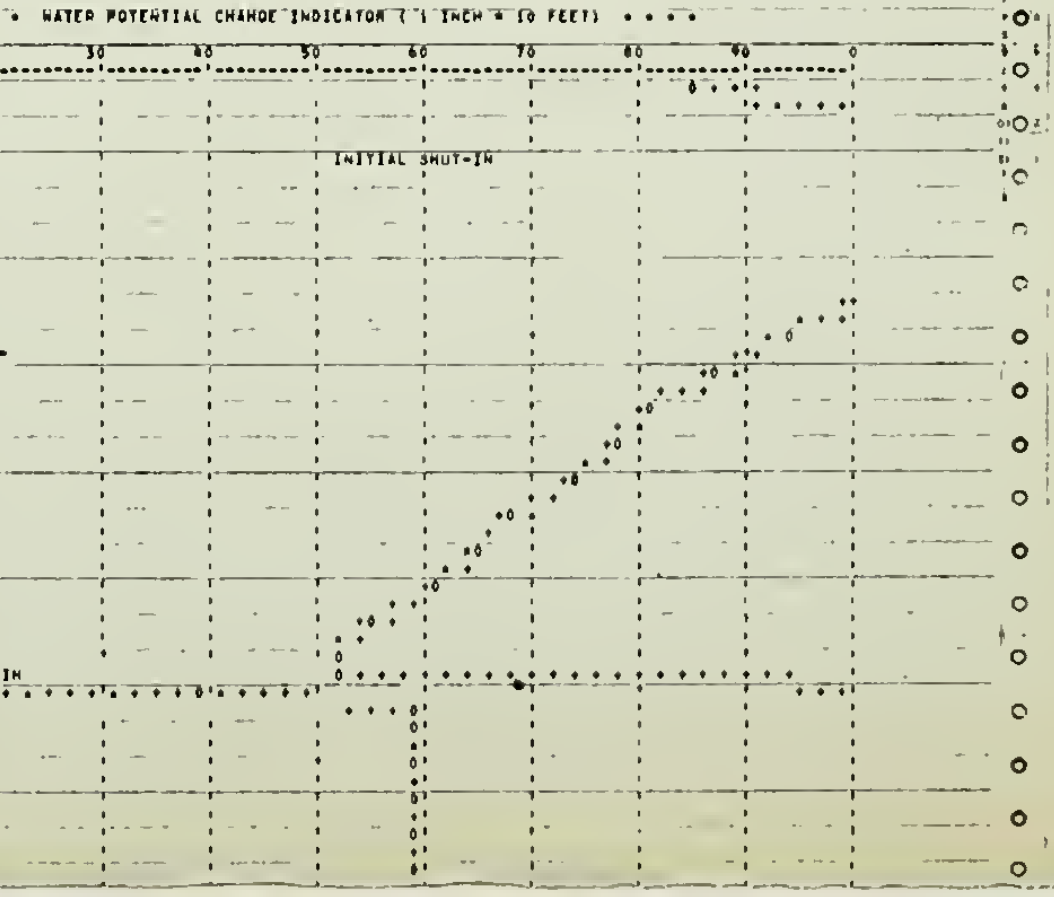
WELL DIAMETER (INCHES)	=	6.75
GROUND ELEVATION (FEET)	=	7036.00
BOMB NO.	=	#097H
BOMB RANGE (PSI)	=	2800
POSITION OF BOMB (FEET)	=	2370.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS (FEET) UPPER	=	2301.00
MIDDLE	=	2305.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	2460.00

THIS RECORD CONTAINS 41 CARDS

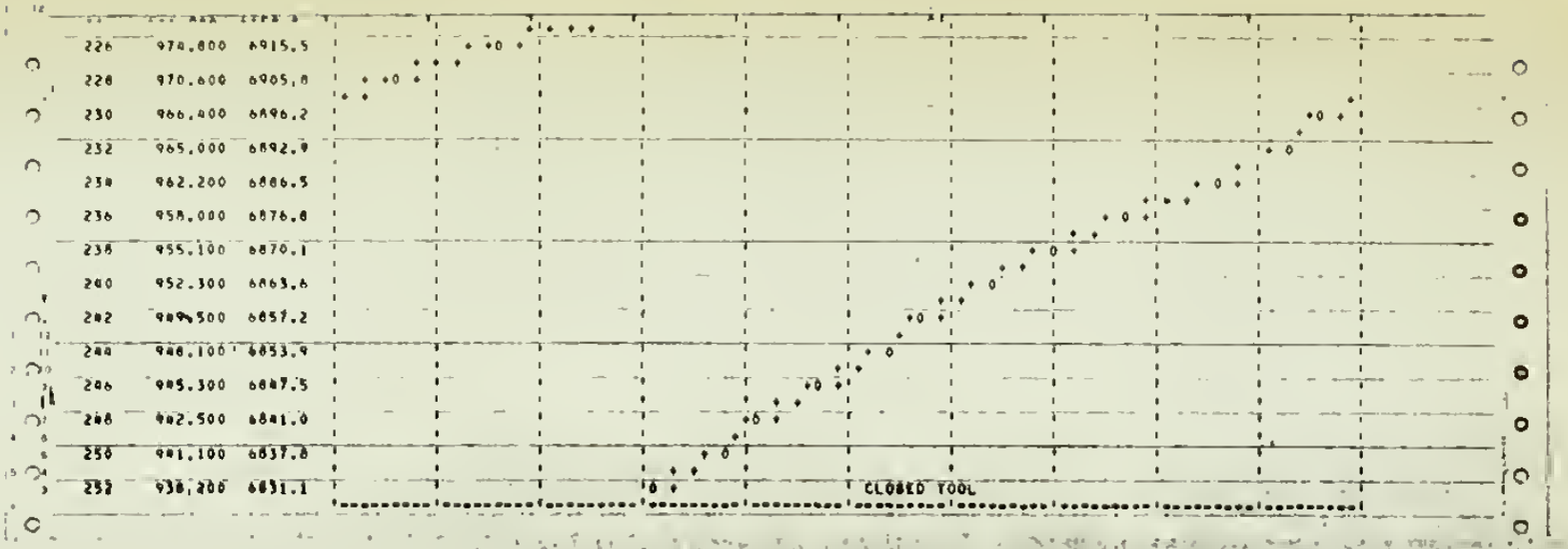
BORE SG 17 DST 3T DATE 11JAN75 CARODECK JJ JOHNSTON STEM

WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET)

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	
0	485.000	5785.2	OPENED TOOL
2	608.000	5806.1	
4	697.700	5819.5	
6	630.000	6119.8	
8	625.800	6110.2	
10	620.400	6106.4	
12	621.600	6100.5	
14	618.700	6093.8	
16	615.900	6087.3	
18	613.100	6080.8	
20	611.700	6077.6	
22	610.300	6074.4	
24	607.500	6067.4	
26	606.100	6064.7	
28	604.700	6061.5	
30	601.000	6055.0	
32	600.800	6051.5	
33	600.800	6051.5	END INITIAL SHUT-IN
34	638.500	6139.5	
35	646.900	6158.8	INITIAL FLOW
36	646.900	6158.8	
38	646.900	6158.8	
40	646.000	6158.8	
42	646.900	6158.8	
44	646.900	6158.8	



96	696.900	6158.8	
98	696.900	6158.8	
50	696.900	6158.8	
52	696.900	6158.8	
54	696.900	6158.8	
56	696.900	6158.0	
58	696.900	6158.8	
60	696.900	6158.8	
62	696.900	6158.8	
64	696.900	6158.8	
66	696.900	6158.8	
68	696.900	6158.8	
70	696.900	6158.8	
72	696.900	6158.8	
74	696.900	6158.8	
76	696.900	6158.8	
78	696.900	6158.8	
00	696.900	6158.8	
02	696.900	6158.8	
04	696.900	6158.8	
06	696.900	6158.8	
08	696.900	6158.8	
90	696.900	6158.0	
92	696.900	6158.8	
94	696.900	6158.8	
96	696.900	6158.8	
98	696.900	6158.8	
100	696.900	6158.8	
102	696.900	6158.8	
104	696.900	6158.8	
106	696.900	6158.8	
108	696.900	6158.8	
110	696.900	6158.8	
112	696.900	6158.8	
114	696.900	6158.8	INJECTING 10 GAL./MIN.
116	699.900	6206.5	
118	727.100	6343.9	
120	739.800	6373.2	
122	767.900	6438.1	
129	811.600	6538.9	
126	831.300	6584.0	
128	893.900	6613.5	
130	887.600	6714.3	
132	915.700	6779.2	
133	917.100	6782.0	INJECTING PRESSURE FALL OFF
134	917.100	6782.0	
136	905.900	6756.5	
130	900.500	6753.3	
139	900.500	6753.3	MIN. PRESSURE STILL INJECTING
140	905.900	6756.5	
142	907.300	6759.0	
109	910.100	6766.2	
196	911.500	6769.5	
198	912.900	6772.7	
150	919.300	6775.9	
152	915.700	6779.2	
154	917.100	6782.0	
156	918.500	6785.6	
158	920.000	6789.1	INJECTING 20 GAL./MIN.
160	935.900	6829.6	
162	939.700	6839.5	
169	992.500	6041.0	
166	945.300	6897.5	
168	940.100	6853.9	
170	949.500	6857.2	
172	949.500	6857.2	
173	949.500	6057.2	INJECTING 30 GAL./MIN.
174	956.500	6073.3	
176	965.000	6092.9	
178	972.000	6909.1	
180	970.800	6915.5	
182	979.100	6925.5	
188	981.900	6931.9	
106	980.700	6938.9	
188	987.500	6990.8	
190	993.100	6957.6	
192	997.900	6967.7	
199	998.000	6970.8	
196	1003.000	6980.6	
195	1000.900	6983.8	
200	1005.800	6987.1	
202	1008.600	6993.5	
209	1008.600	6993.5	
209	1012.800	7003.2	
208	1015.700	7009.9	
210	1015.700	7009.9	
212	1017.100	7013.2	
219	1010.500	7016.8	
216	1019.900	7019.6	
218	1021.300	7022.8	PRESSURE FALL OFF
220	980.900	6908.1	
222	906.100	6981.6	
229	980.500	6928.7	



II B-1071

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 17 Drill stem test no. 37

Date: Jan. 11, 1975 Interval tested: 2395-2460 ft.

Pressure gauge: Johnston (Upper)

Formation tested: Garden Gulch

Golder Associates

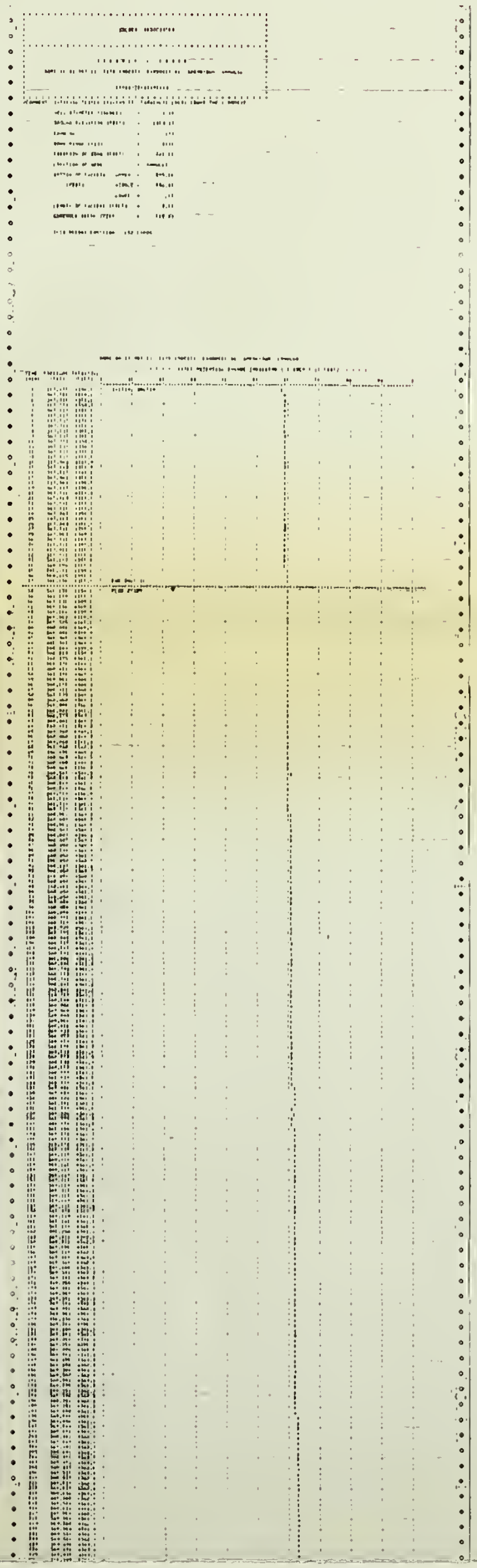
SG-17 D.S.T. -37

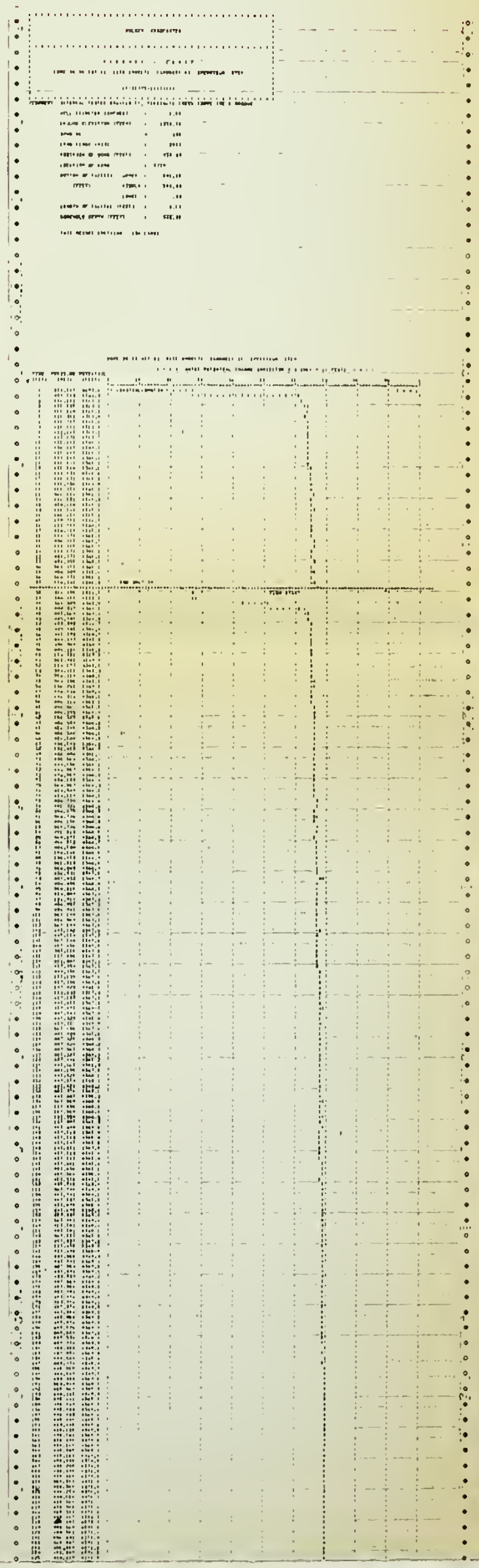
SG-20 DST Pressure Response Charts

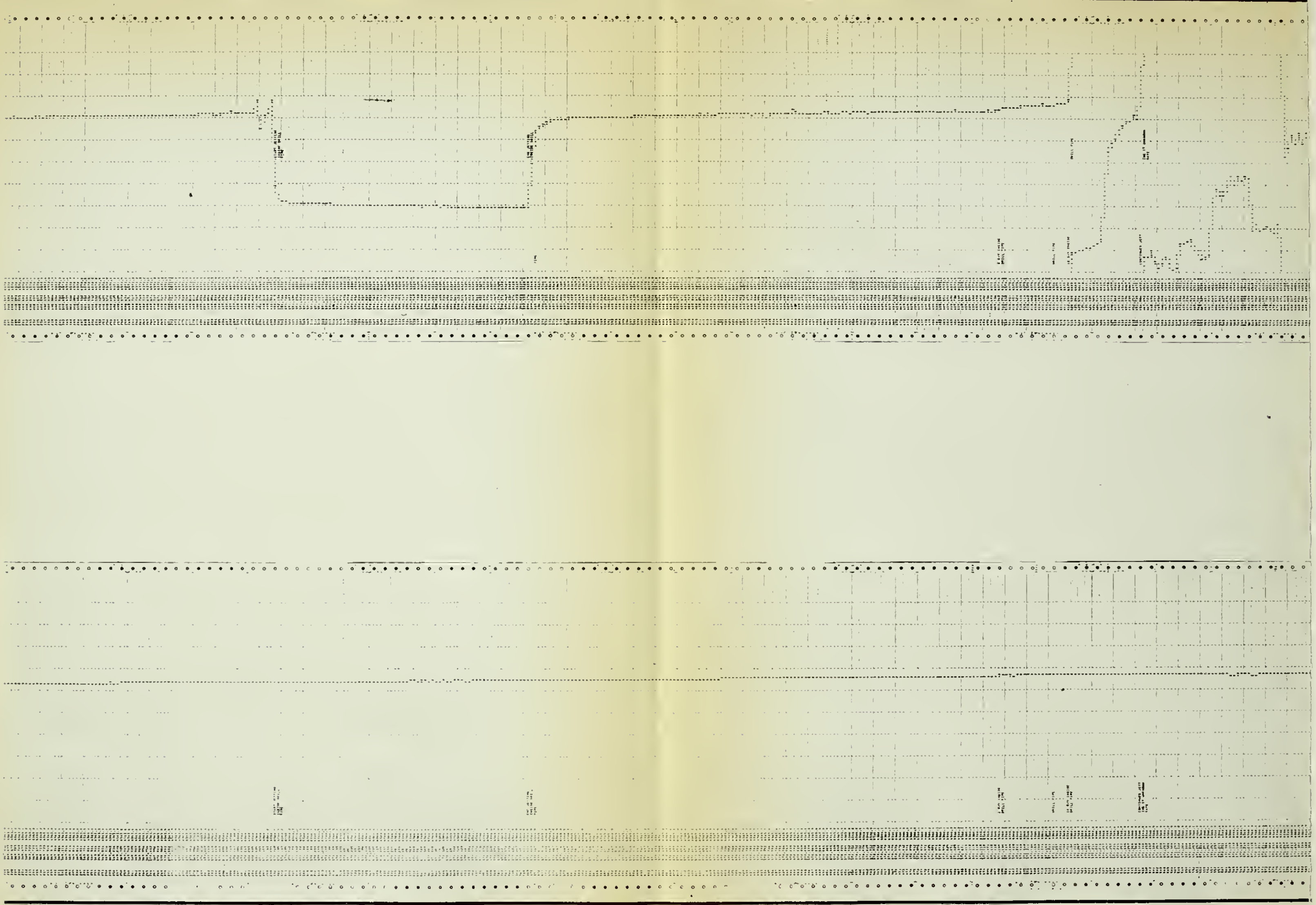
TABLE 11 B-49
COREHOLE SG-20
PRESSURE-POTENTIAL CHARTS
DRILLSTEM TESTS*

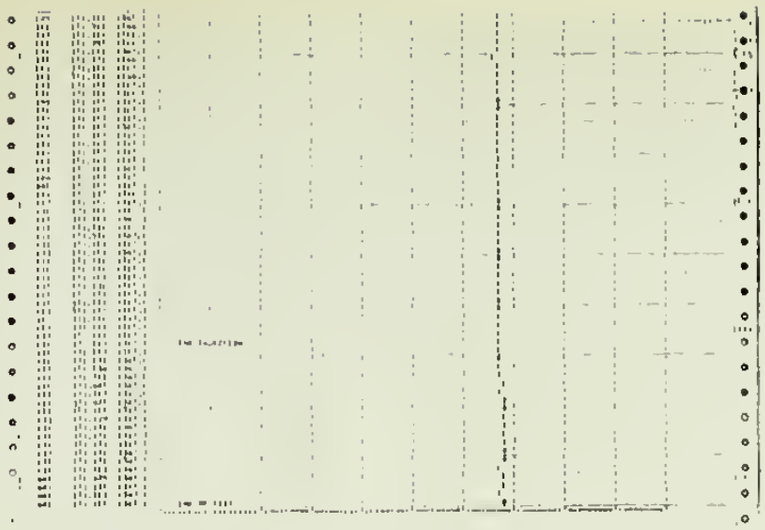
DST No.	Depth	Pressure Gauge
1	896-945	Sperry Sun
2	945-986	Sperry Sun Johnston Lower

* Other charts were reported in Quarterly Report #2.

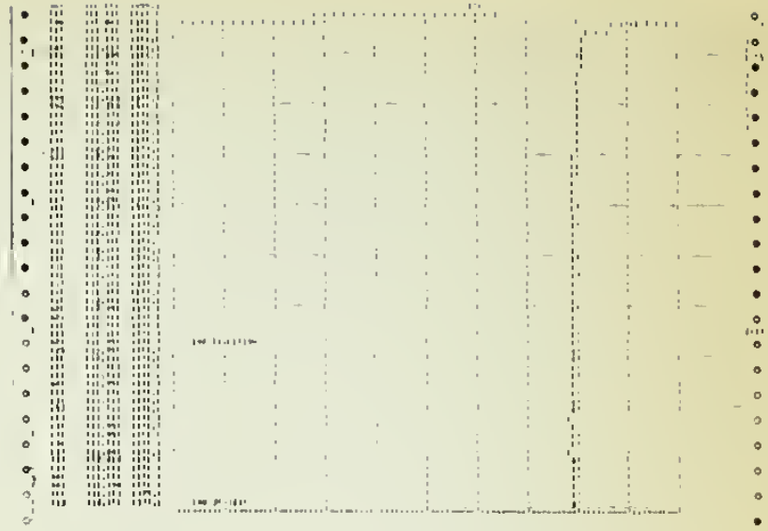








ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1073

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

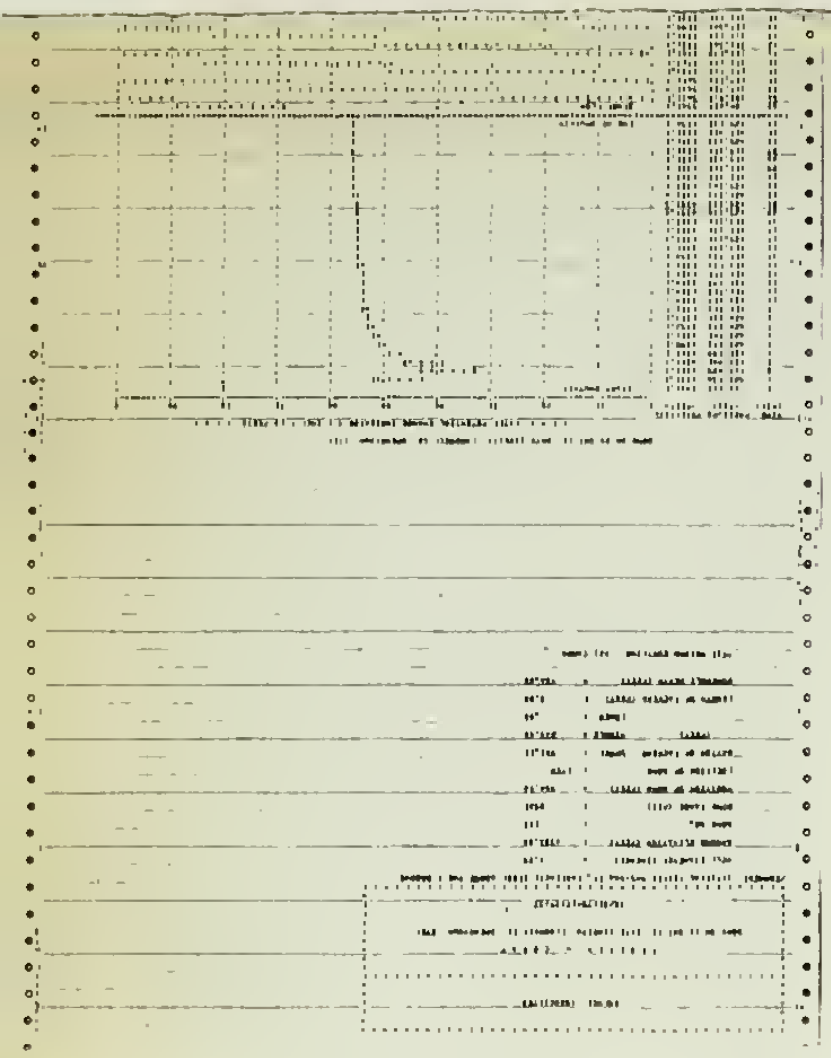
Borehole no 20 Drill stem test no. 1

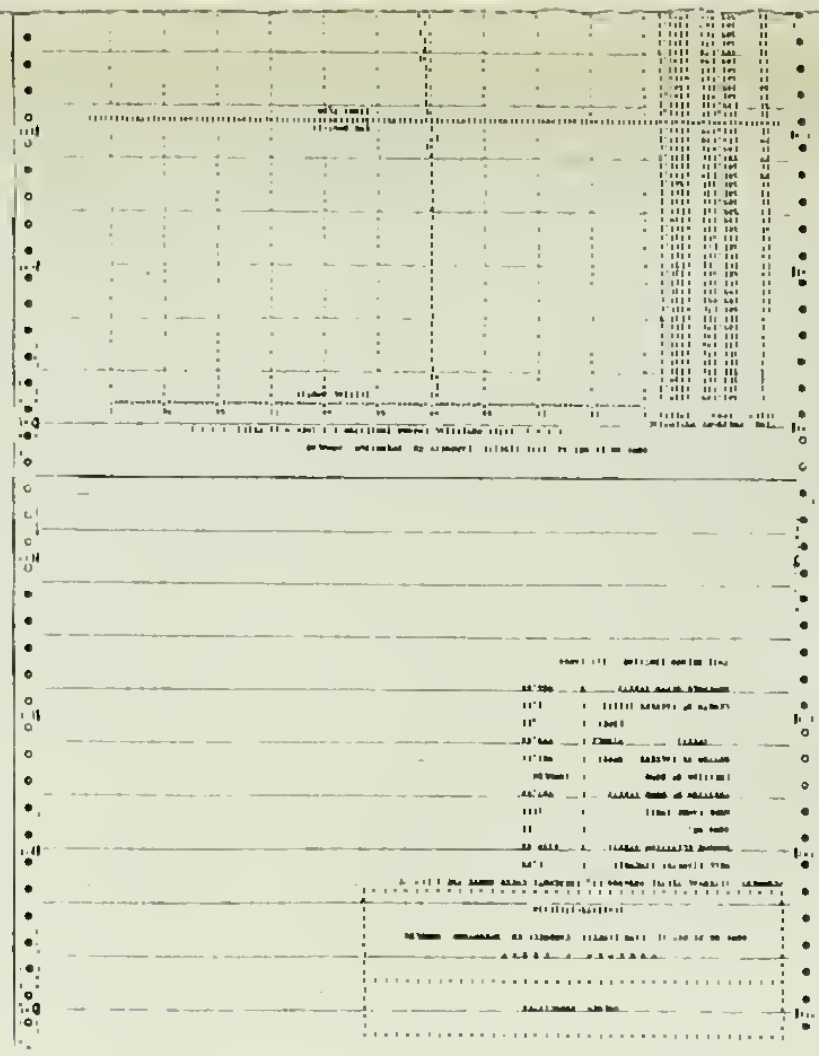
Date: Dec. 9, 1974 Interval tested 896-945 ft.

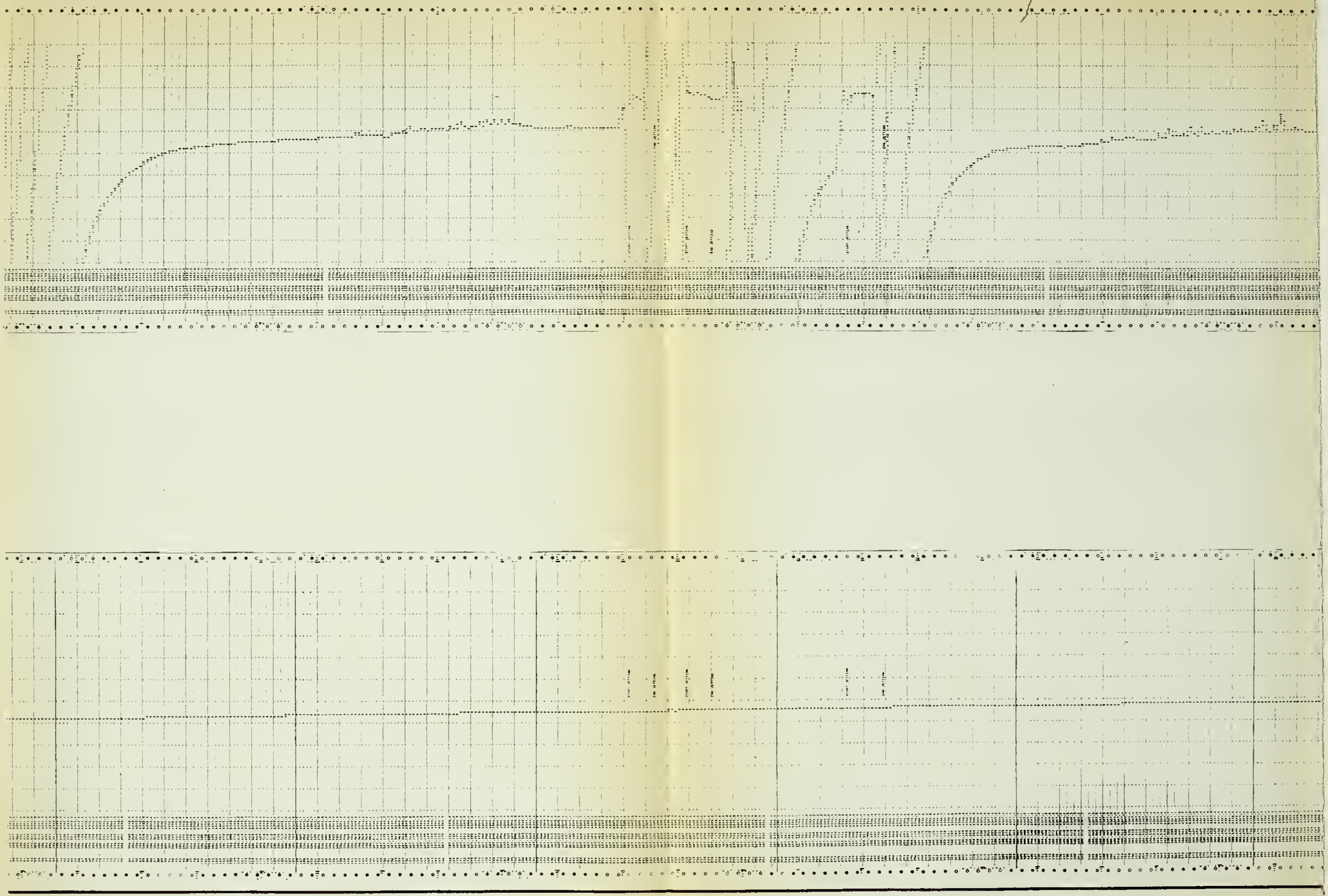
Pressure gauges: Sperry Sun

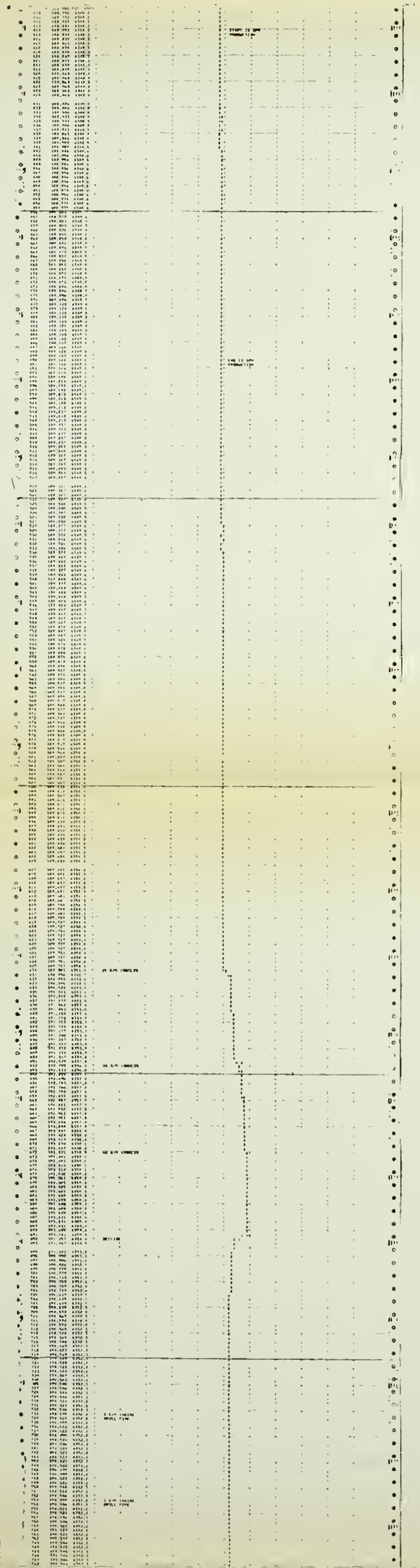
Formation tested: Parachute Creek straddling the A Groove.

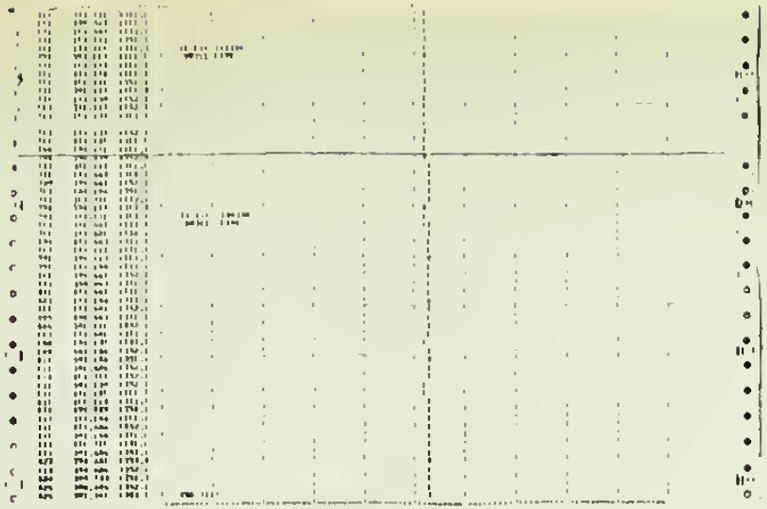
SG- 20 D.S.T.- 1



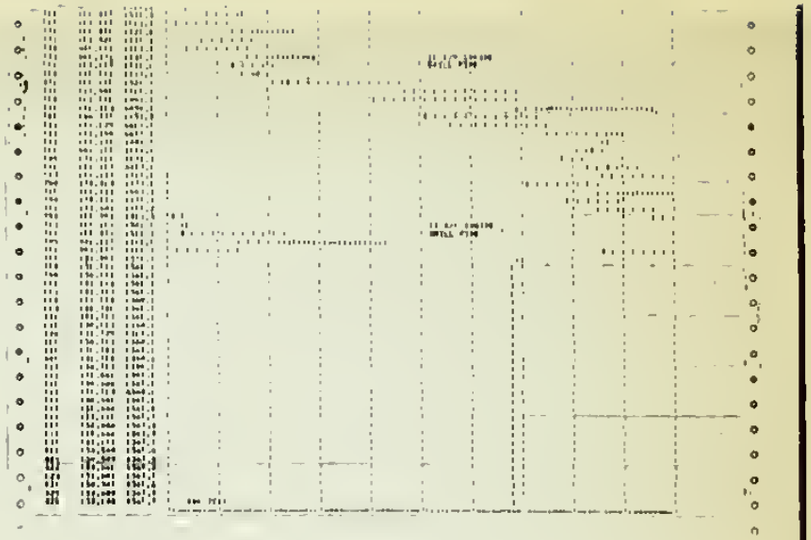








ANNULUS PRESSURE RESPONSE



STEM PRESSURE RESPONSE

II B-1074

NOTES:

Golder Associates

C-b TRACT HYDROLOGY

Borehole no 20 Drill stem test no. 2

Dote: Dec 11, 1974 Intervol tested 945-986ft.

Pressure gouges Sperry Sun

Formotion tested. Parachute Creek above the mine roof

SG- 20 D.S.T.- 2

GOLDER ASSOCIATES

PROGRAM - CBBAP

BORE 8G 20 DST 02 DATE 11DEC74 CARDDECK CB JOHNSTON STEM

10/02/75-16:59:12

/COMMENT INTERVAL TESTED 985-986 FT. PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)	=	6.25
GROUND ELEVATION (FEET)	=	6358.00
BOMB NO.	=	8097H
BOMB RANGE (PSI)	=	2800
POSITION OF BOMB (FEET)	=	987.00
LOCATION OF BOMB	=	STEM
BOTTOM OF PACKERS (FEET) UPPER	=	981.00
MIDDLE	=	985.00
LOWER	=	.00
LENGTH OF PACKERS (FEET)	=	2.00
BOREHOLE DEPTH (FEET)	=	986.00

THIS RECORD CONTAINS 85 CARDS

BORE 8G 20 DST 02 DATE 11DEC74 CARDDECK CB JOHNSTON STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

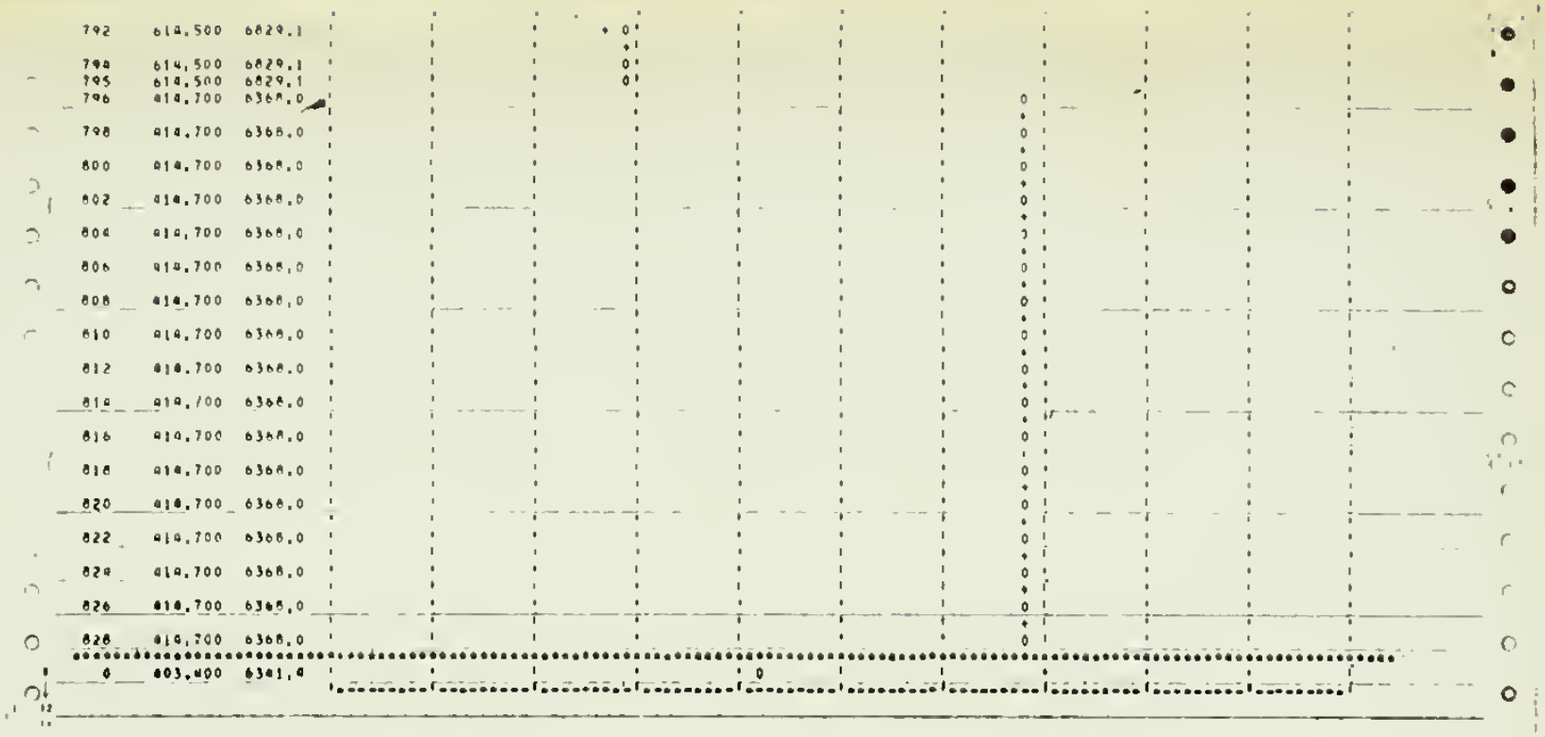
TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	395.000	6322.5
0	400.400	6335.5
0	29.800	5488.2
1	40.300	5500.0
2	286.800	6072.0
3	402.000	6338.7
4	403.900	6341.9
5	404.800	6345.2
6	404.800	6345.2
7	406.200	6348.4
8	406.200	6348.4
9	406.200	6348.4
10	406.200	6348.4
11	406.200	6348.4
12	406.200	6348.4
13	406.200	6348.4
14	406.200	6348.4
15	406.200	6348.4
20	406.200	6348.4
25	406.200	6348.4
30	406.200	6348.4
34	406.200	6348.4
36	411.800	6361.3
37	47.300	5520.2
38	46.600	5833.9
39	105.000	5853.3
40	119.100	5885.8
41	131.800	5715.2
42	151.500	5780.6
43	164.100	5789.7
44	176.000	5819.0
45	189.500	5848.3
46	206.300	5887.1
47	216.200	5909.9
48	228.900	5939.2
49	238.700	5961.8
50	252.800	5994.9
51	261.200	6013.8
52	272.500	6039.8
53	279.500	6056.0
54	290.800	6082.1
55	299.200	6101.5
56	309.100	6124.3
57	316.100	6140.5
58	323.200	6156.8
59	330.200	6173.0
60	335.800	6185.9
61	342.900	6202.3
62	349.900	6218.5
63	354.100	6228.2
64	358.900	6241.3
65	364.000	6251.0
66	368.200	6260.7
67	372.900	6270.4
68	376.700	6280.3
69	378.500	6286.8
70	382.300	6293.2
71	385.100	6299.7
72	387.900	6306.2
73	390.700	6312.6
74	392.100	6315.8
75	393.500	6319.1
76	395.000	6322.5
77	396.400	6325.8
78	397.800	6329.0

80	399.200	6332.2
81	399.200	6332.2
82	000.600	6335.5
83	400.600	6335.5
84	400.600	6335.5
85	402.000	6338.7
86	402.000	6338.7
87	403.400	6341.9
88	403.400	6341.9
89	403.400	6341.9
90	403.400	6341.9
91	404.800	6345.2
92	400.800	6305.2
93	404.800	6345.2
94	404.800	6345.2
95	404.800	6345.2
100	404.800	6345.2
105	406.200	6348.4
110	404.200	6348.4
115	407.400	6351.6
120	407.600	6351.6
125	407.600	6351.6
130	407.600	6351.6
135	407.600	6351.6
140	407.600	6351.6
145	409.000	6354.8
150	009.000	6354.8
155	409.000	6354.8
160	409.000	6354.8
165	409.000	6354.8
170	409.000	6354.8
175	410.400	6358.1
180	410.000	6358.1
185	410.000	6358.1
190	410.400	6358.1
195	410.400	6358.1
200	410.400	6358.1
205	010.000	6358.1
210	410.400	6358.1
215	410.400	6358.1
219	410.400	6358.1
220	350.100	6228.2
221	328.800	6169.8
222	328.800	6169.8
224	328.800	6169.8
226	200.900	6059.2
228	320.400	6150.8
230	337.200	6189.2
232	351.300	6221.7
234	362.600	6247.8
236	404.800	6345.2
238	330.200	6173.0
240	330.200	6173.0
242	330.200	6173.0
244	330.200	6173.0
206	330.200	6173.0
247	278.100	4052.8
248	302.100	6108.2
250	352.700	6224.9
252	326.000	6163.3
253	326.000	6163.3
254	293.600	6088.5
255	288.000	6075.6
256	318.900	6146.9

258	335.800	6185.9
260	349.900	6216.5
262	361.200	6240.5
264	372.400	6270.4
268	379.500	6286.8
268	386.500	6302.9
270	392.100	6315.8
272	396.900	6325.8
274	399.200	6332.2
276	400.600	6335.5
278	402.000	6338.7
279	402.000	6338.7
280	434.400	6413.5
281	327.400	6166.5
282	328.800	6169.8
284	328.800	6169.8
286	328.800	6169.8
287	279.500	6054.0
288	300.700	6100.9
289	309.100	6120.3
290	320.400	6150.4
291	327.400	6166.5
292	335.800	6185.9
293	342.900	6202.3
294	349.900	6216.5
295	355.500	6231.4
296	361.200	6240.5
297	366.800	6257.5
298	371.000	6267.2
299	376.700	6280.3
300	379.500	6286.8
301	383.700	6296.5
302	386.500	6302.9
303	389.300	6309.4
304	390.700	6312.6
305	393.500	6319.1
306	395.000	6322.5
307	396.400	6325.8
308	397.600	6329.0
309	399.200	6332.2
310	400.600	6335.5
311	400.600	6335.5
312	402.000	6338.7
313	402.000	6338.7
314	402.000	6338.7
315	403.400	6341.9
316	403.400	6341.9
317	403.400	6341.9
318	403.400	6341.9
319	404.800	6345.2
320	404.800	6345.2
325	404.800	6345.2
330	406.200	6348.4
335	406.200	6348.4
340	406.200	6348.4
345	406.200	6348.4
350	407.600	6351.6
355	407.600	6351.6
360	407.600	6351.6
365	407.600	6351.6
370	409.000	6354.8
375	409.000	6354.8
380	409.000	6354.8
385	410.400	6358.1
390	410.400	6358.1
395	410.400	6358.1
400	410.400	6358.1
405	410.400	6358.1
410	410.400	6358.1
414	410.400	6358.1
415	411.800	6361.3
418	435.000	6410.2
420	206.300	5867.1
422	197.900	5867.7
425	212.000	5900.2
430	210.600	5897.0
435	210.600	5897.0

440	210.600	5897.0
445	210.600	5897.0
450	210.600	5897.0
455	210.600	5897.0
460	210.600	5897.0
465	210.600	5897.0
470	210.600	5897.0
475	210.600	5897.0
480	210.600	5897.0
485	210.600	5897.0
490	210.600	5897.0
491	210.600	5897.0
492	157.100	5773.5
493	223.200	5926.1
494	234.500	5952.2
495	248.600	5984.7
496	258.600	6007.3
497	272.500	6039.8
498	280.900	6059.2
499	293.600	6088.5
500	299.200	6101.5
501	309.100	6124.3
502	318.900	6146.9
503	329.600	6160.1
504	333.000	6179.5
505	338.700	6192.6
506	345.700	6208.8
507	349.900	6218.5
508	355.500	6231.4
509	359.800	6241.3
510	364.000	6251.0
511	368.200	6260.7
512	372.600	6270.4
513	375.200	6276.8
514	378.100	6283.5
515	380.900	6290.0
516	383.700	6296.5
517	385.100	6299.7
518	386.500	6302.9
519	389.300	6309.6
520	389.300	6309.6
521	390.700	6312.6
522	392.100	6315.8
523	393.500	6319.1
524	393.500	6319.1
525	393.500	6319.1
526	395.000	6322.5
527	396.400	6325.8
528	396.400	6325.8
529	396.400	6325.8
530	396.400	6325.8
531	396.400	6325.8
532	396.400	6325.8
533	397.800	6329.0
534	397.800	6329.0
535	399.200	6332.2
540	399.200	6332.2
545	400.600	6335.5
550	402.000	6338.7
555	403.400	6341.9
560	404.800	6345.2
565	404.800	6345.2
570	406.200	6348.4
575	407.600	6351.6
580	407.600	6351.6
585	407.600	6351.6
590	407.600	6351.6
595	407.600	6351.6
600	407.600	6351.6
610	409.000	6354.8

020	409.000	0358.8
030	409.000	6358.8
040	410.400	0358.1
650	410.400	6358.1
660	410.400	0358.1
670	411.800	0301.3
680	411.800	0361.3
690	411.800	6301.3
700	411.800	6361.3
710	411.800	0301.3
720	411.800	6301.3
730	411.800	6361.3
740	413.300	6364.8
750	413.300	0364.8
751	413.300	6364.8
752	455.500	6462.2
754	459.700	6471.8
756	465.300	6480.8
758	468.100	8491.2
760	473.800	6508.8
762	476.600	6510.8
764	479.400	6517.3
766	480.800	6520.5
768	482.200	6523.8
770	483.600	6527.0
772	483.600	0527.0
774	483.600	6527.0
776	483.600	8527.0
777	483.800	6527.0
778	554.000	6689.5
780	606.100	6809.7
782	603.300	6803.2
784	600.100	6809.7
786	607.500	6812.9
788	610.300	6819.4
790	610.300	0819.4



II B-1075

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 20 — Drill stem test no. 2

Date: Dec 11, 1974 — Interval tested: 945-986 ft.

Pressure gouge: Johnston (Lower)

Formation tested: Parachute Creek above the mine roof

Golder Associates

SG - 20 — D.S.T. - 2

SG-21 DST Pressure Response Charts

TABLE II B-50
COREHOLE SG-21
PRESSURE-POTENTIAL CHARTS
DRILLSTEM TESTS*

DST No.	Depth	Pressure Gauge
DST 1	1000-1036	Johnston Lower
2	950-1000	Sperry Sun
		Johnston Lower
		Johnston Upper

* Other charts were reported in Quarterly Report #2.

GOLDER ASSOCIATES

PROGRAM - CGBAP

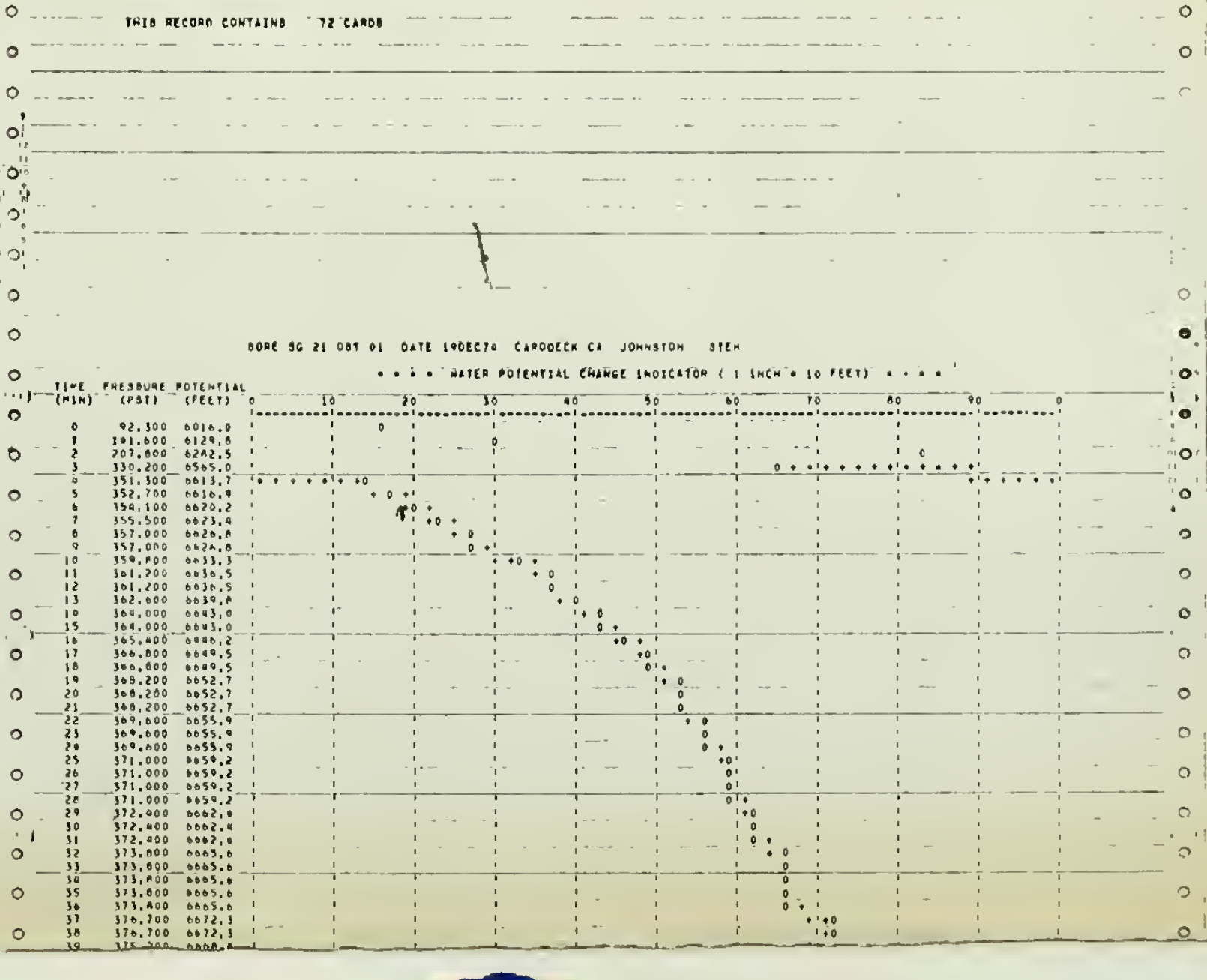
BORE SG 21 DST 01 DATE 19DEC78 CARDDECK CA JOHNSTON BTEM

02/18/75-00425107

/COMMENT INTERVAL TESTED 1000-1036 FT. PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)	*	6.75
GROUND ELEVATION (FEET)	*	6611.00
BOMB NO.	*	4709H
BOMB RANGE (PSI)	*	2600
POSITION OF BOMB (FEET)	*	1006.00
LOCATION OF BOMB	*	BTEM
BOTTOM OF PACKERS UPPER	*	996.00
(FEET) MIDDLE	*	1000.00
LOWER	*	.00
LENGTH OF PACKERS (FEET)	*	2.00
BOREHOLE DEPTH (FEET)	*	1036.00

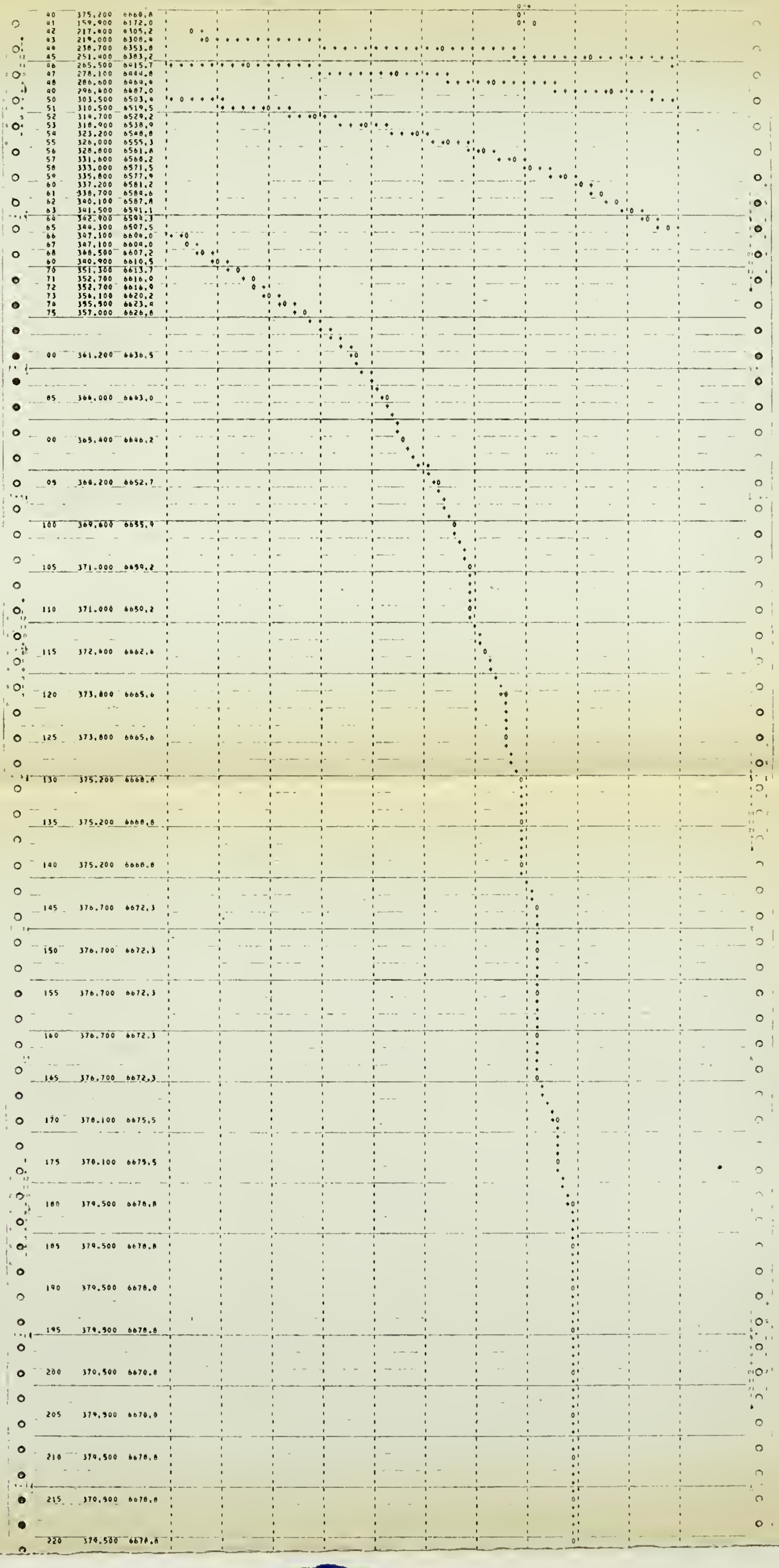
THIS RECORD CONTAINS 72 CARDS



BORE SG 21 DST 01 DATE 19DEC78 CARDDECK CA JOHNSTON BTEM

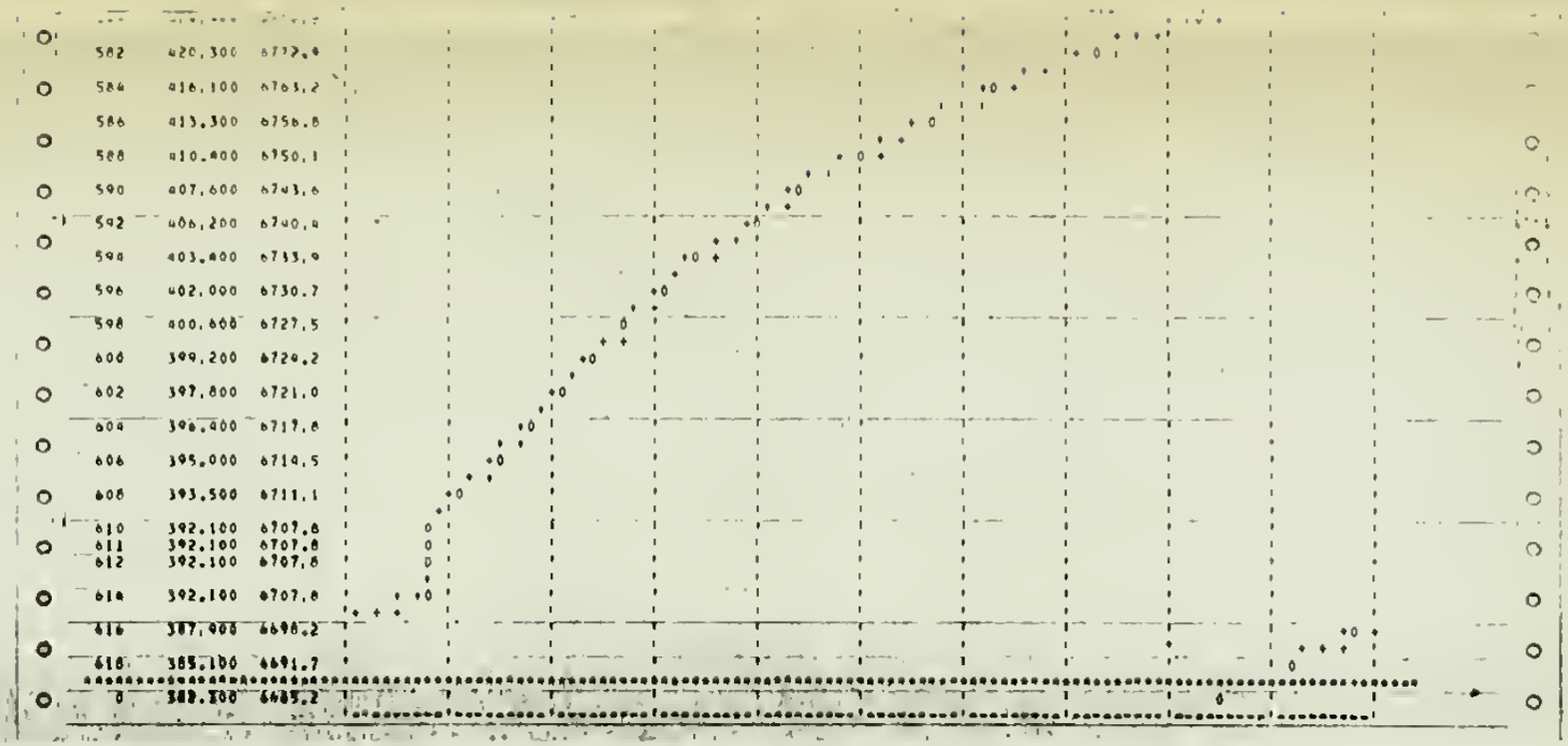
* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	92.300	6016.0
1	191.600	6129.8
2	207.600	6242.5
3	330.200	6565.0
4	351.300	6613.7
5	352.700	6616.9
6	354.100	6620.2
7	355.500	6623.4
8	357.000	6626.8
9	357.000	6626.8
10	359.900	6633.3
11	361.200	6636.5
12	361.200	6636.5
13	362.600	6639.8
14	364.000	6643.0
15	364.000	6643.0
16	365.400	6646.2
17	366.800	6649.5
18	366.800	6649.5
19	368.200	6652.7
20	368.200	6652.7
21	368.200	6652.7
22	369.600	6655.9
23	369.600	6655.9
24	369.600	6655.9
25	371.000	6659.2
26	371.000	6659.2
27	371.000	6659.2
28	371.000	6659.2
29	372.400	6662.4
30	372.400	6662.4
31	372.400	6662.4
32	373.800	6665.6
33	373.800	6665.6
34	373.800	6665.6
35	373.800	6665.6
36	373.800	6665.6
37	376.700	6672.3
38	376.700	6672.3
39	376.700	6672.3


40 375.200 6660.8
41 159.900 6172.0
42 217.800 6305.2
43 219.000 6308.0
44 238.700 6353.8
45 251.400 6383.2
46 265.500 6415.7
47 278.100 6444.8
48 286.600 6464.0
49 296.800 6487.0
50 303.500 6503.0
51 310.500 6519.5
52 310.700 6529.2
53 310.900 6538.9
54 323.200 6548.8
55 326.000 6555.3
56 328.800 6561.8
57 331.600 6568.2
58 333.000 6571.5
59 335.800 6577.9
60 337.200 6581.2
61 338.700 6584.6
62 340.100 6587.8
63 341.500 6591.1
64 342.900 6594.3
65 344.300 6597.5
66 347.100 6604.0
67 347.100 6604.0
68 348.500 6607.2
69 340.900 6610.5
70 351.300 6613.7
71 352.700 6616.0
72 352.700 6616.9
73 356.100 6620.2
74 355.900 6623.4
75 357.000 6626.8
00 361.200 6636.5
85 366.000 6643.0
00 365.400 6646.2
95 366.200 6652.7
100 369.600 6655.9
105 371.000 6659.2
110 371.000 6650.2
115 372.400 6662.6
120 373.800 6665.6
125 373.800 6665.6
130 375.200 6668.8
135 375.200 6668.8
140 375.200 6668.8
145 376.700 6672.3
150 376.700 6672.3
155 376.700 6672.3
160 376.700 6672.3
165 376.700 6672.3
170 378.100 6675.5
175 378.100 6675.5
180 379.500 6678.8
185 379.500 6678.8
190 379.500 6678.0
195 379.500 6678.8
200 379.500 6678.8
205 379.500 6678.8
210 379.500 6678.8
215 379.500 6678.8
220 379.500 6678.8

225	379.500	6678.8
230	379.500	6678.8
235	379.500	6678.8
240	380.900	6682.0
245	380.900	6682.0
247	380.900	6682.0
248	402.000	6730.7
250	251.400	6383.2
252	286.600	6464.0
254	310.500	6514.5
256	327.600	6558.5
258	335.800	6577.9
260	342.400	6549.3
262	357.000	6626.8
264	384.500	6698.9
265	300.700	6496.9
266	306.300	6504.8
268	300.700	6496.9
269	273.900	6435.1
270	272.500	6431.8
272	271.100	6428.6
274	265.500	6415.7
276	262.600	6409.0
278	261.200	6405.8
280	258.400	6399.3
282	255.600	6392.8
284	254.200	6389.6
286	252.800	6386.4
288	252.800	6386.4
290	251.400	6383.2
292	251.400	6383.2
296	250.000	6379.9
296	248.600	6376.7
298	248.600	6376.7
300	248.600	6376.7
302	247.200	6373.5
304	247.200	6373.5
306	247.200	6373.5
308	245.800	6370.2
310	245.800	6370.2
312	245.800	6370.2
314	245.800	6370.2
316	245.800	6370.2
318	245.800	6370.2
320	245.800	6370.2
322	245.800	6370.2
324	265.800	6370.2
325	209.200	6285.8
326	227.500	6328.0
328	251.400	6383.2
330	264.100	6412.5
332	273.900	6435.1
334	282.400	6454.7
336	288.000	6467.6
338	295.080	6483.8
340	300.700	6496.9
342	304.900	6506.6
344	310.500	6514.5
346	313.300	6526.0
348	318.900	6538.9
350	321.800	6545.6
352	326.000	6555.3
354	328.800	6561.8
356	331.600	6568.2
358	335.800	6577.9
360	338.700	6584.6
362	341.500	6591.1
364	344.300	6597.5
366	345.700	6600.8
368	348.500	6607.2
370	349.900	6610.5
372	352.700	6616.9
374	354.100	6620.2
376	355.500	6623.4
378	357.000	6626.8
380	358.400	6630.1
382	359.800	6633.3
384	361.200	6636.5
386	361.200	6636.5
388	362.600	6639.8
390	364.000	6643.0
392	364.000	6643.0
394	365.400	6646.2
396	366.800	6649.5
398	366.800	6649.5
400	368.200	6652.7

402	368.200	6652.7
404	368.200	6652.7
406	369.600	6655.9
408	369.600	6655.9
410	369.600	6655.9
412	371.000	6659.2
414	371.000	6659.2
416	371.000	6659.2
418	372.400	6662.4
420	372.400	6662.4
422	372.900	6662.4
424	373.800	6665.6
426	373.800	6665.6
428	373.800	6665.6
430	373.800	6665.6
432	373.800	6665.6
434	375.200	6668.8
436	375.200	6668.8
438	375.200	6668.8
440	375.200	6668.8
442	375.200	6668.8
444	375.200	6668.8
446	376.700	6672.3
448	376.700	6672.3
450	376.700	6672.3
452	376.700	6672.3
454	376.700	6672.3
456	376.700	6672.3
458	376.700	6672.3
460	376.700	6672.3
462	376.700	6672.3
464	376.700	6672.3
466	378.100	6675.5
468	378.100	6675.5
470	378.100	6675.5
472	378.100	6675.5
474	378.100	6675.5
476	378.100	6675.5
478	379.500	6678.8
480	379.500	6678.8
482	379.500	6678.8
484	379.500	6678.8
486	379.500	6678.8
488	379.500	6678.8
490	379.500	6678.8
492	379.500	6678.8
494	379.500	6678.8
496	379.500	6678.8
498	379.500	6678.8
500	379.500	6678.8
502	379.500	6678.8
504	379.500	6678.8
506	379.500	6678.8
508	379.500	6678.8
510	380.900	6682.0
512	380.900	6682.0
514	380.400	6682.0
515	380.900	6682.0
516	382.300	6685.2
518	385.100	6691.7
520	386.500	6694.9
522	389.300	6701.4
524	390.700	6704.8
526	392.100	6707.8
528	392.100	6707.8
530	393.500	6711.1
532	393.500	6711.1
534	393.500	6711.1
536	396.400	6717.8
538	397.800	6721.0
540	399.200	6724.2
542	400.600	6727.5
544	402.000	6730.7
546	402.000	6730.7
548	403.400	6733.9
550	403.400	6733.9
552	403.000	6733.8
554	409.800	6737.2
556	413.300	6754.4
558	421.700	6776.2
560	428.700	6792.3
562	430.800	6805.5
564	438.800	6815.2
566	440.000	6818.4
568	441.400	6821.6
570	441.400	6821.6
572	441.400	6821.6
574	441.400	6821.6
576	441.400	6821.6
577	442.800	6824.8
578	428.700	6792.3



II B-1077

NOTES:

C-b TRACT HYDROLOGY

Borehole no. 21 Drill stem test no. 1

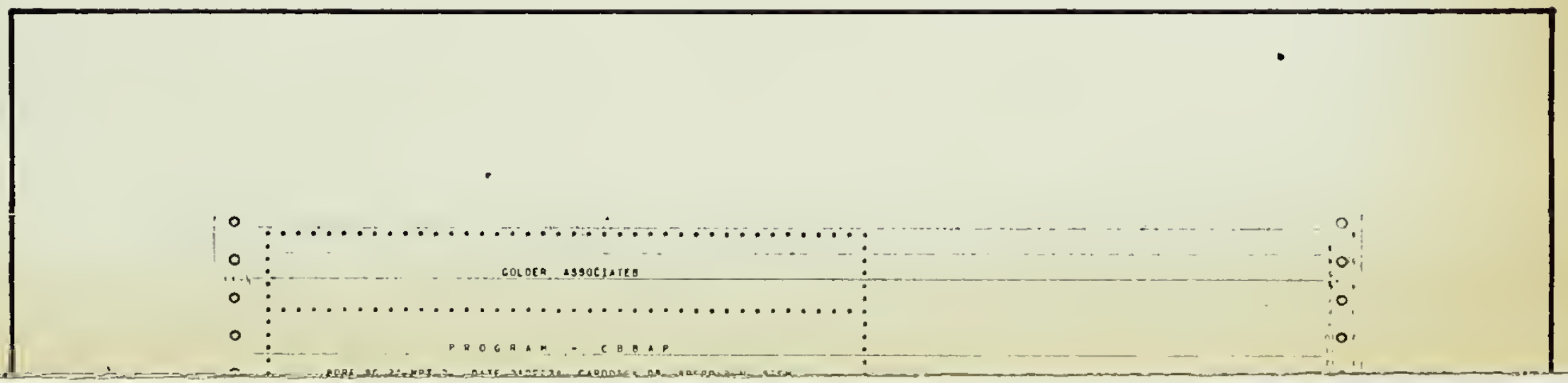
Dote: Dec. 19, 1974 Intervol tested: 1000-1036 ft.

Pressure gouge: Johnston (Lower)

Formotion tested: Parachute Creek above the mine roof

Golder Associates

SG - 21 D.S.T. - 1


GOLDER ASSOCIATES
PROGRAM - CBRAP

02/20/75-22150103

/COMMENT INTERVAL TESTED 950-1000 FT. PARACHUTE CREEK ABOVE THE MINE ROOF

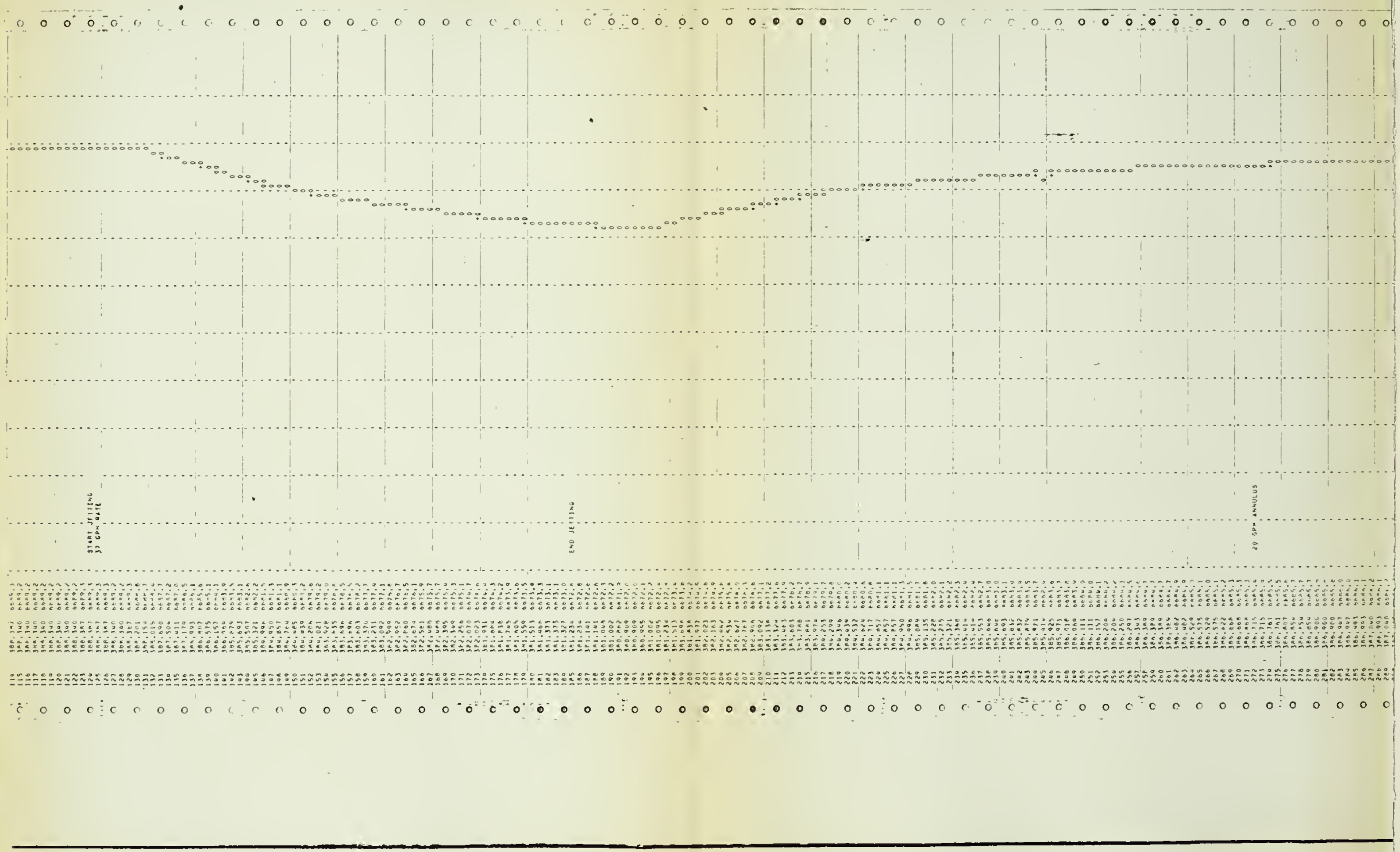
WELL DIAMETER (INCHES)	*	8.75
GROUND ELEVATION (FEET)	*	6811.00
BOMB NO.	*	188
BOMB RANGE (PSI)	*	2000
POSITION OF BOMB (FEET)	*	1018.00
LOCATION OF BOMB	*	STEM
BOTTOM OF PACKERS UPPER	*	988.00
(FEET) MIDDLE	*	950.00
LOWER	*	1000.00
LENGTH OF PACKERS (FEET)	*	2.00
BOREHOLE DEPTH (FEET)	*	1038.00

THIS RECORD CONTAINS 586 CARDS

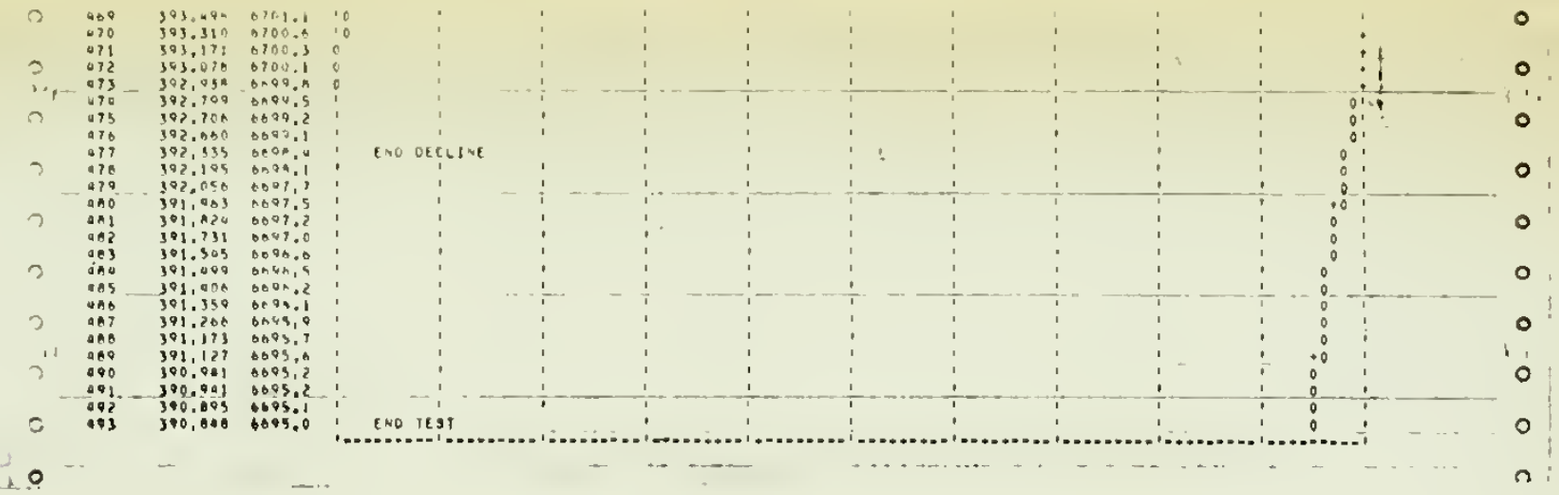
ROPF SG 21 RPT 2 DATE 21DEC79 CARDDECK 08 SPERRYSUN STEM

* * * * WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) * * * *

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)	0 10 20 30 40 50 60 70 80 90 0
0	389.037	6630.4	INITIAL OPEN
1	388.898	6691.5	
2	388.717	6670.0	
3	388.576	6644.7	
4	388.387	6648.1	
5	388.247	6648.0	END OPEN
5	388.247	6648.0	INITIAL SHUTIN
6	388.154	6688.2	
7	388.061	6688.5	
8	387.969	6688.3	
9	387.922	6688.2	
10	387.876	6688.1	
11	387.922	6688.2	
12	387.829	6688.0	
13	387.876	6688.1	
14	387.829	6688.0	
15	387.829	6688.0	
16	387.876	6688.1	
17	387.876	6688.1	
18	387.922	6688.2	
19	387.876	6688.1	
20	387.969	6688.3	
21	387.969	6688.3	
22	388.015	6689.4	
23	385.228	6682.0	
24	389.015	6689.4	
25	388.061	6688.5	
26	388.061	6688.5	
27	388.061	6688.5	
28	388.108	6688.6	
29	388.108	6688.6	
30	388.154	6688.7	
31	388.154	6688.7	
32	388.061	6688.5	
33	388.154	6688.7	
34	388.201	6688.8	
35	388.154	6688.7	
36	388.201	6688.8	
37	388.201	6688.8	
38	388.201	6688.8	
39	387.458	6687.1	END SHUTIN
39	387.458	6687.1	FINAL OPEN
40	388.201	6688.8	
41	388.201	6688.8	
42	388.201	6688.8	
43	388.201	6688.8	
44	388.201	6688.8	
45	388.247	6689.0	
46	388.201	6688.8	
47	388.247	6689.0	
48	388.201	6688.8	
49	388.201	6688.8	
50	388.201	6688.8	
51	388.294	6689.1	
52	388.201	6688.8	
53	388.247	6689.0	
54	388.294	6689.1	
55	388.247	6689.0	
56	388.247	6689.0	
57	388.247	6689.0	
58	388.294	6689.1	
59	388.294	6689.1	
60	388.247	6689.0	
61	388.247	6689.0	
62	388.247	6689.0	
63	388.247	6689.0	
64	388.294	6689.1	
65	388.294	6689.1	
66	388.294	6689.1	
67	388.247	6689.0	
68	388.294	6689.1	
69	388.294	6689.1	
70	388.294	6689.1	
71	388.247	6689.0	
72	388.294	6689.1	
73	388.294	6689.1	
74	388.247	6689.0	
75	388.294	6689.1	
76	388.294	6689.1	
77	388.340	6689.2	
78	388.340	6689.2	
79	388.340	6689.2	
80	388.294	6689.1	
81	388.294	6689.1	
82	388.340	6689.2	
83	388.340	6689.2	
84	388.340	6689.2	
85	388.294	6689.1	
86	388.340	6689.2	
87	388.340	6689.2	
88	388.340	6689.2	
89	388.294	6689.1	
90	388.340	6689.2	
91	388.340	6689.2	
92	388.294	6689.1	
93	388.340	6689.2	
94	388.340	6689.2	
95	388.340	6689.2	
96	388.340	6689.2	
97	388.294	6689.1	
98	388.294	6689.1	
99	388.340	6689.2	
100	388.340	6689.2	
101	388.340	6689.2	
102	388.340	6689.2	
103	388.341	6689.2	
104	388.340	6689.2	
105	388.340	6689.2	
106	388.340	6689.2	
107	388.340	6689.2	
108	388.294	6689.1	
109	388.340	6689.2	
110	388.340	6689.2	
111	388.340	6689.2	
112	388.340	6689.2	
113	388.340	6689.2	


START JETTING
37 GPM GATE
END JETTING
20 GPM ANNULUS

291	387.066	6686.3		
292	387.133	6686.4	90 GPM ANNULUS	
293	387.133	6686.4		
294	387.133	6686.4		
295	387.179	6686.5		
296	387.179	6686.5		
297	387.179	6686.5		
298	387.179	6686.5		
299	387.179	6686.5		
300	387.272	6686.7		
301	387.272	6686.7		
302	387.272	6686.7		
303	387.272	6686.7		
304	387.318	6686.8		
305	387.318	6686.8		
306	387.365	6686.9		
307	387.365	6686.9		
308	387.365	6686.9		
309	387.365	6686.9		
310	387.411	6687.0		
311	387.411	6687.0		
312	387.411	6687.0	60 GPM ANNULUS	
313	387.411	6687.0		
314	387.458	6687.1		
315	387.458	6687.1		
316	387.458	6687.1		
317	387.504	6687.2		
318	387.551	6687.3		
319	387.458	6687.1		
320	387.551	6687.3		
321	387.551	6687.3		
322	387.551	6687.3		
323	387.551	6687.3		
324	387.551	6687.3		
325	387.597	6687.5		
326	387.597	6687.5		
327	387.597	6687.5		
328	387.597	6687.5		
329	387.597	6687.5		
330	387.597	6687.5		
331	387.643	6687.6		
332	387.643	6687.6	START DECLINE	
333	387.643	6687.6		
334	387.643	6687.6		
335	387.690	6687.7		
336	387.690	6687.7		
337	387.736	6687.8		
338	387.736	6687.8		
339	387.736	6687.8		
340	387.736	6687.8		
341	387.736	6687.8		
342	387.783	6687.9		
343	387.783	6687.9		
344	387.783	6687.9		
345	387.783	6687.9		
346	387.829	6688.0		
347	387.829	6688.0		
348	387.783	6687.9		
349	387.829	6688.0		
350	387.829	6688.0		
351	387.876	6688.1		
352	387.876	6688.1	END DECLINE	
353	387.876	6688.1		
354	387.876	6688.1		
355	387.876	6688.1		
356	387.876	6688.1		
357	387.922	6688.2		
358	387.876	6688.1		
359	387.922	6688.2		
360	387.969	6688.3		
361	387.922	6688.2		
362	387.922	6688.2		
363	387.969	6688.3	2 GPM INSIDE	
364	387.969	6688.3	DRILL PIPE	
365	387.969	6688.3		
366	387.969	6688.3		
367	387.969	6688.3		
368	387.969	6688.3		
369	387.969	6688.3		
370	388.015	6688.4		
371	388.015	6688.4		
372	388.015	6688.4		
373	388.015	6688.4		
374	388.015	6688.4		
375	388.061	6688.5		
376	388.061	6688.5		
377	388.061	6688.5		
378	388.108	6688.6		
379	388.154	6688.7		
380	388.154	6688.7		
381	388.201	6688.8		
382	388.201	6688.8		
383	388.201	6688.8	5 GPM INSIDE	
384	388.201	6688.8	DRILL PIPE	
385	388.247	6689.0		
386	388.294	6689.1		
387	388.294	6689.1		
388	388.294	6689.1		
389	388.340	6689.2		
390	388.340	6689.2		
391	388.294	6689.1		
392	388.387	6689.3		
393	388.433	6689.4		
394	388.433	6689.4		
395	388.433	6689.4		
396	388.433	6689.4		
397	388.480	6689.5		
398	388.526	6689.6		
399	388.526	6689.6		
400	388.573	6689.7		
401	388.619	6689.8		
402	388.665	6689.9		
403	388.665	6689.9	10 GPM INSIDE	
404	388.665	6689.9	DRILL PIPE	
405	388.712	6690.0		
406	388.758	6690.1		
407	388.805	6690.2		
408	388.758	6690.1		
409	388.758	6690.1		
410	388.805	6690.2		
411	388.851	6690.3		
412	388.851	6690.3		
413	388.898	6690.5		
414	388.944	6690.6		
415	388.944	6690.6		
416	389.037	6690.8		
417	389.037	6690.8		
418	389.130	6691.0		
419	389.223	6691.2		
420	389.176	6691.1		
421	389.408	6691.6		
422	389.362	6691.5		
423	389.408	6691.6	20 GPM INSIDE	
424	389.501	6691.8	DRILL PIPE	
425	389.548	6692.0		
426	389.594	6692.1		
427	389.687	6692.3		
428	389.780	6692.5		
429	389.780	6692.5		
430	389.780	6692.5		
431	389.873	6692.7		
432	389.966	6692.9		
433	390.012	6693.0		
434	390.152	6693.3		
435	390.198	6693.5		
436	390.291	6693.7		
437	390.337	6693.8		
438	390.616	6694.4		
439	390.709	6694.6		
440	390.755	6694.7		
441	390.848	6695.0		
442	390.988	6695.3		
443	391.034	6695.4	60 GPM INSIDE	
444	391.220	6695.8	DRILL PIPE	
445	391.359	6696.1	OVERFLOW AT	
446	391.359	6696.1	2 GPM	
447	391.499	6696.5		
448	391.591	6696.7		
449	391.638	6696.8		
450	391.731	6697.0		
451	391.963	6697.5		
452	392.102	6697.9		
453	392.242	6698.2		
454	392.381	6698.5		
455	392.474	6698.7		
456	392.660	6699.1		
457	392.706	6699.2	START DECLINE	
458	392.938	6699.7	0	
459	393.078	6700.1	0	
460	393.171	6700.3	0	
461	393.310	6700.6	0	
462	393.449	6701.0	0	
463	393.589	6701.3	0	
464	393.728	6701.6	0	
465	393.728	6701.6	0	
466	393.681	6701.5	0	
467	393.635	6701.4	0	
468	393.589	6701.3	0	



II B-1078

NOTES:

1. This Drill Stem Test straddled the open hole with this pressure gauge below the "packed-off" section of the borehole.

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 21 — Drill stem test no. 2

Date: Dec. 21, 1974 — Intervol tested: 950-1000 ft.

Pressure gauge: Sperry Sun

Formotion tested: Parachute Creek above the A Groove

SG - 21 — D.S.T. - 2

GOLDER ASSOCIATES

PROGRAM - CRBAP

BORE SG 21 DST 02 DATE 21DEC78 CARDDECK CB JOHNSTON STEM

02/18/75-00135118

/COMMENT INTERVAL TESTED 1000-1036 FT. PARACHUTE CREEK ABOVE THE A GROOVE
/COMMENT INTERVAL TESTED 950-1000 FT. PARACHUTE CREEK ABOVE THE A GROOVE

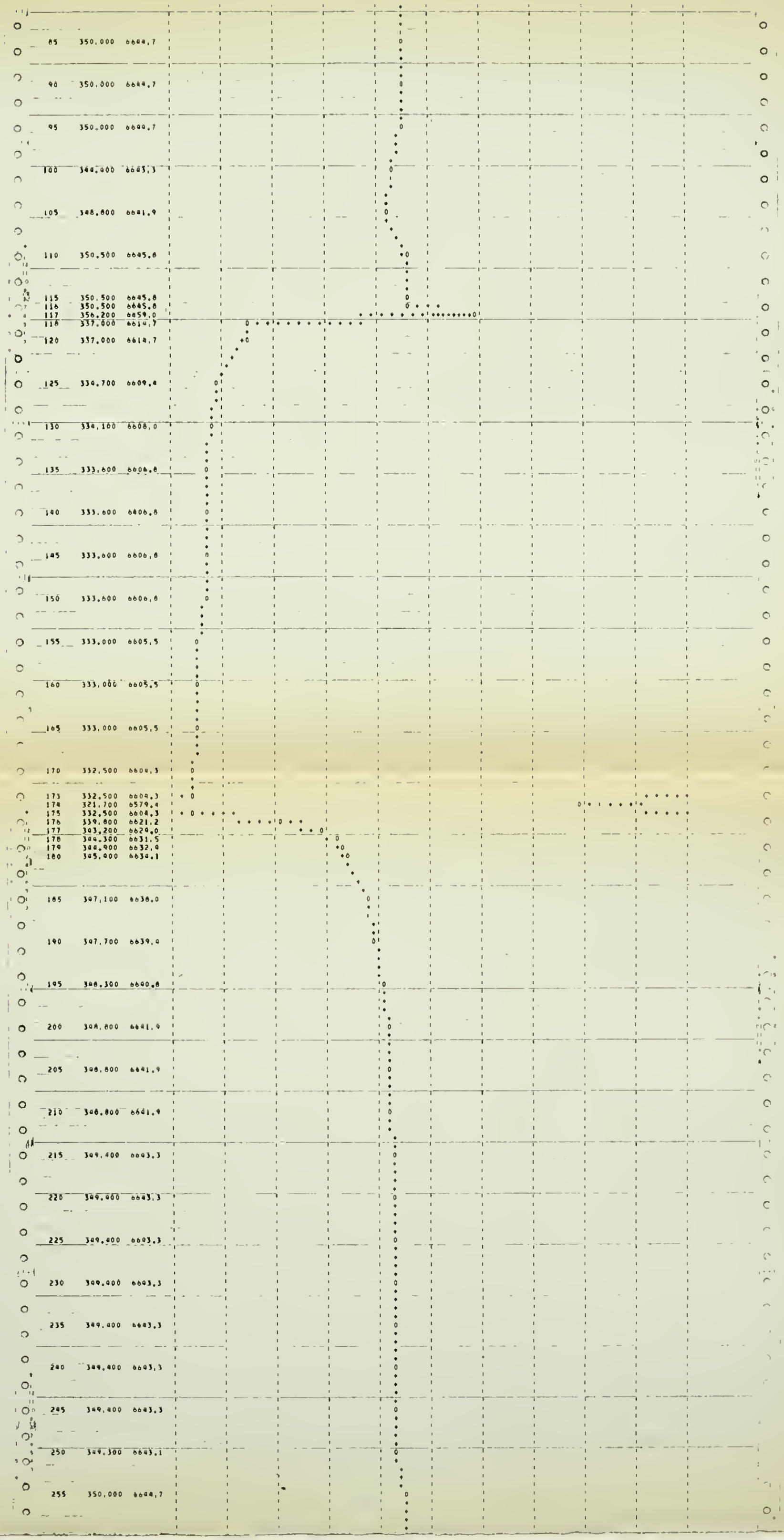
WELL DIAMETER (INCHES)	•	6.75
GROUND ELEVATION (FEET)	•	6811.00
BOMB NO.	•	J-029
BOMB RANGE (PSI)	•	2800
POSITION OF BOMB (FEET)	•	974.00
LOCATION OF BOMB	•	STEM
BOTTOM OF PACKERS UPPER	•	966.00
(FEET) MIDDLE	•	950.00
LOWER	•	1000.00
LENGTH OF PACKERS (FEET)	•	2.00
BOREHOLE DEPTH (FEET)	•	1036.00

THIS RECORD CONTAINS 35 CARDS

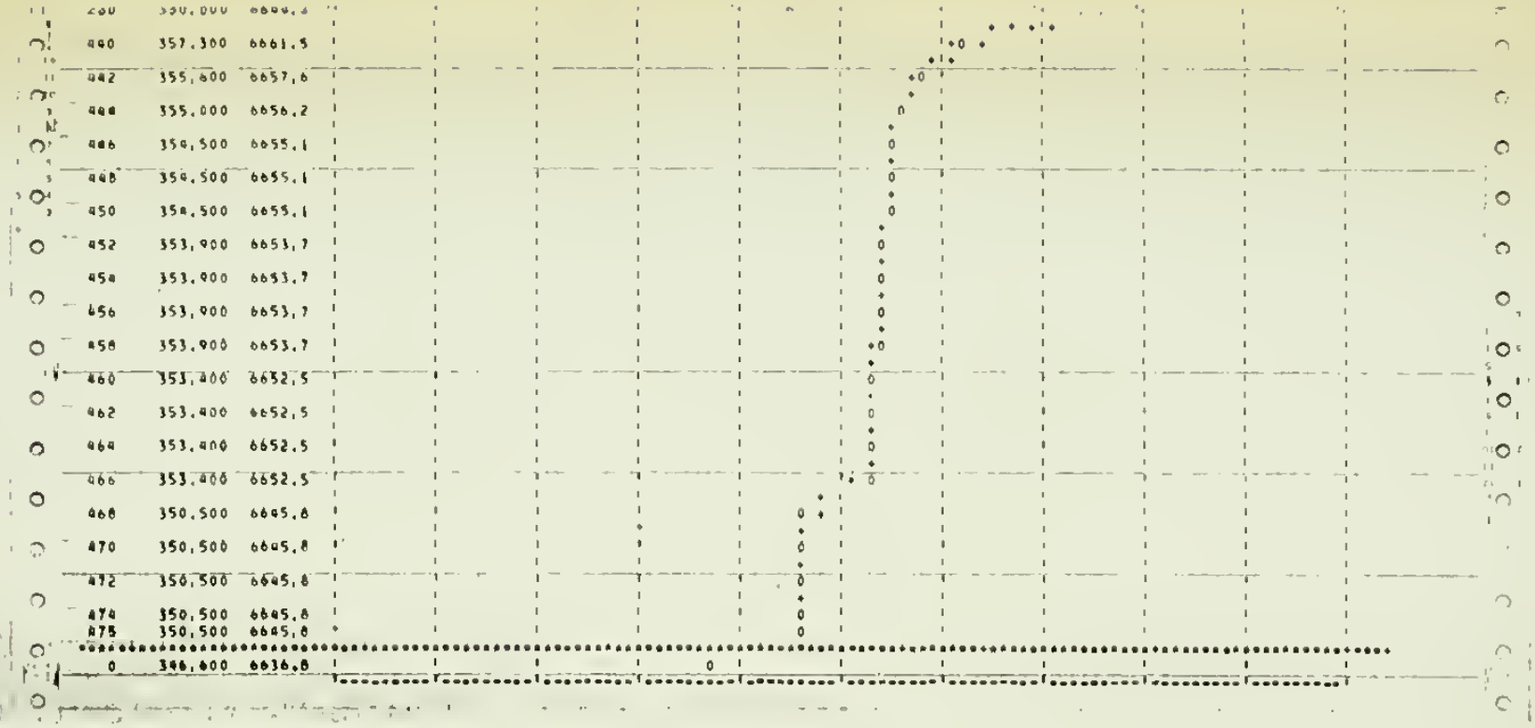
BORE SG 21 DST 02 DATE 21DEC78 CARDDECK CB JOHNSTON STEM

• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	302.000	6533.9
1	305.900	6542.9
2	318.900	6572.9
3	329.600	6597.6
4	338.700	6618.6
5	343.800	6630.4
6	345.400	6634.1
7	346.000	6635.5
8	346.600	6636.8
9	346.600	6636.8
10	347.100	6638.0
11	347.100	6638.0
12	347.100	6638.0
13	347.700	6639.4
14	347.700	6639.4
15	347.700	6639.4
20	347.700	6639.4
25	348.300	6640.8
30	348.300	6640.8
35	348.300	6640.8
40	348.300	6640.8
45	348.300	6640.8
50	348.800	6641.9
55	348.800	6641.9
60	348.800	6641.9
65	348.800	6641.9
70	348.800	6641.9
75	349.400	6643.3
80	350.000	6644.7


85 350.000 6648.7
90 350.000 6648.7
95 350.000 6648.7
100 348.000 6643.3
105 348.800 6641.9
110 350.500 6645.8
115 350.500 6645.8
116 350.500 6645.8
117 356.200 6659.0
118 337.000 6614.7
120 337.000 6614.7
125 330.700 6609.8
130 334.100 6608.0
135 333.600 6606.8
140 333.600 6606.8
145 333.600 6606.8
150 333.600 6606.8
155 333.000 6605.5
160 333.000 6605.5
165 333.000 6605.5
170 332.500 6604.3
173 332.500 6604.3
174 321.700 6579.4
175 332.500 6604.3
176 339.800 6621.2
177 343.200 6629.0
178 344.300 6631.5
179 344.900 6632.9
180 345.900 6634.1
185 347.100 6636.0
190 347.700 6639.0
195 348.300 6640.8
200 348.800 6641.9
205 348.800 6641.9
210 348.800 6641.9
215 349.400 6643.3
220 349.400 6643.3
225 349.400 6643.3
230 349.400 6643.3
235 349.400 6643.3
240 349.400 6643.3
245 349.400 6643.3
250 349.300 6643.1
255 350.000 6648.7

260	350.000	6604.1
265	350.500	6605.8
270	351.100	6607.2
275	351.100	6607.2
280	351.100	6607.2
285	351.100	6607.2
290	351.100	6607.2
295	351.100	6607.2
300	351.100	6607.2
305	351.100	6607.2
310	351.100	6607.2
315	351.100	6607.2
320	351.100	6607.2
325	351.100	6607.2
330	351.100	6607.2
335	351.100	6607.2
340	351.100	6607.2
345	351.100	6607.2
350	351.700	6608.8
355	352.200	6609.8
360	352.200	6609.8
365	352.200	6609.8
370	352.200	6609.8
375	352.200	6609.8
380	352.200	6609.8
385	352.200	6609.8
390	352.200	6609.8
395	352.200	6609.8
400	352.200	6609.8
403	352.200	6609.8
404	355.000	6658.2
406	356.700	6660.2
408	357.300	6661.5
410	357.300	6661.5
412	357.900	6662.9
414	357.900	6662.9
416	357.900	6662.9
418	357.900	6662.9
420	357.900	6662.9
422	357.900	6662.9
424	362.400	6673.3
426	364.600	6678.4
428	365.200	6679.8
430	365.800	6681.2
432	365.800	6681.2
434	365.800	6681.2
436	365.800	6681.2
437	365.800	6681.2
438	363.500	6675.9



II B-1079

NOTES:

1. This Drill Stem Test straddled the open hole with pressure gauges below the "packed off" section of the borehole.

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 21 Drill stem test no. 2

Date: Dec. 21, 1974 Intervol tested: 950-1000 ft.

Pressure gouge: Johnston (Lower)

Formotion tested: Parachute Creek above the A Groove

SG - 21 D.S.T. - 2

GOLDER ASSOCIATES

PROGRAM - CRAP

BORE SG 21 DST 02 DATE 21DEC74 CARDDECK CB JOHNSTON STEM

02/18/75-00133:00

/COMMENT INTERVAL TESTED 950-1000 FT, PARACHUTE CREEK ABOVE THE A GROOVE

WELL DIAMETER (INCHES)		•	6.75
GROUND ELEVATION (FEET)		•	6811.00
BOMB NO.		•	J-405
BOMB RANGE (PSI)		•	2800
POSITION OF BOMB (FEET)		•	933.00
LOCATION OF BOMB		•	STEM
BOTTOM OF PACKERS (FEET)	UPPER	•	946.00
	MIDDLE	•	950.00
	LOWER	•	1000.00
LENGTH OF PACKERS (FEET)		•	2.00
BOREHOLE DEPTH (FEET)		•	1036.00

THIS RECORD CONTAINS 35 CARDS

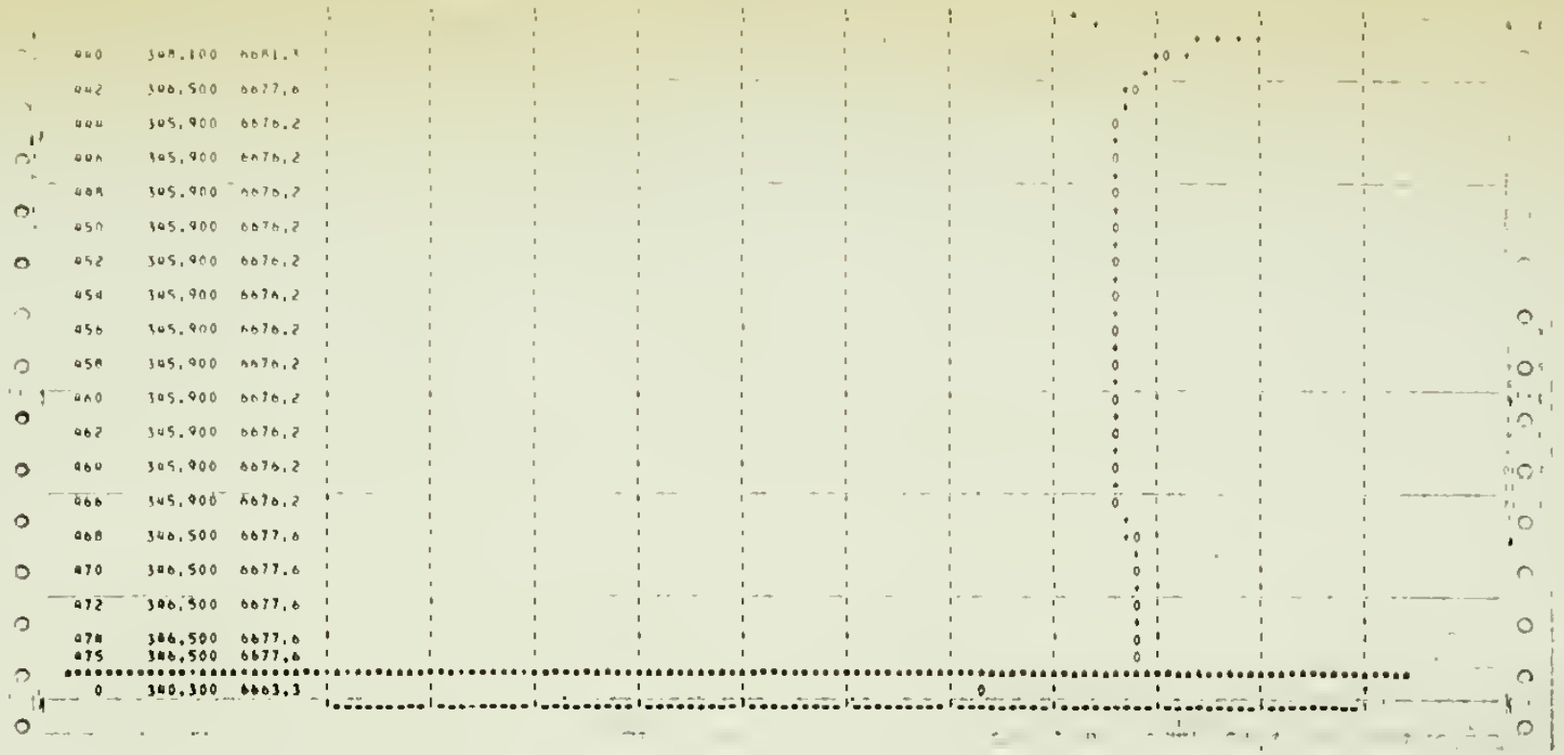
BORE SG 21 DST 02 DATE 21DEC74 CARDDECK CB JOHNSTON STEM

• • • • WATER POTENTIAL CHANGE INDICATOR (1 INCH = 10 FEET) • • • •

TIME (MIN)	PRESSURE (PSI)	POTENTIAL (FEET)
0	293.400	6532.0
1	295.800	6560.6
2	309.800	6592.9
3	314.400	6615.1
4	329.600	6638.6
5	335.800	6652.9
6	339.100	6660.5
7	340.300	6663.3
8	340.800	6664.5
9	341.400	6665.8
10	341.900	6667.0
11	341.900	6667.0
12	341.900	6667.0
13	341.900	6667.0
14	342.500	6668.4
15	342.500	6668.4
20	342.500	6668.4
25	343.100	6669.8
30	343.100	6669.8
35	343.100	6669.8
40	343.100	6669.8
45	343.100	6669.8
50	343.600	6670.9
55	343.600	6670.9
60	343.600	6670.9
65	343.600	6670.9
70	343.600	6670.9
75	344.200	6672.3
80	344.200	6672.3

85	304,200	6672,3
90	304,200	6672,3
95	304,800	6673,7
100	304,800	6673,7
105	304,800	6673,7
110	304,800	6673,7
115	345,300	6674,8
116	345,300	6674,8
117	351,500	6669,2
118	329,000	6637,2
120	329,000	6637,2
125	329,000	6637,2
130	329,000	6637,2
135	328,800	6635,8
140	328,800	6635,8
145	327,900	6634,7
150	327,900	6634,7
155	327,300	6633,3
160	327,300	6633,3
165	327,300	6633,3
170	327,300	6633,3
173	327,300	6633,3
174	313,200	6600,8
175	325,000	6628,0
176	332,900	6646,2
177	337,400	6656,6
178	340,300	6663,3
179	341,400	6665,8
180	341,400	6665,8
185	341,800	6665,8
190	341,900	6667,0
195	341,900	6667,0
200	342,500	6668,4
205	304,200	6672,3
210	304,200	6672,3
215	304,800	6673,7
220	304,800	6673,7
225	304,800	6673,7
230	304,800	6673,7
235	304,800	6673,7
240	304,800	6673,7
245	304,800	6673,7
250	304,800	6673,7
255	304,800	6673,7
260	304,800	6673,7

265	349,800	6673,7
270	349,800	6673,7
275	349,800	6673,7
280	345,300	6679,8
285	345,300	6679,8
290	345,300	6679,8
295	345,300	6679,8
300	345,300	6679,8
305	345,300	6679,8
310	345,300	6679,8
315	345,300	6679,8
320	345,300	6679,8
325	345,300	6679,8
330	345,300	6679,8
335	345,300	6679,8
340	345,300	6679,8
345	345,300	6679,8
350	345,300	6679,8
355	345,300	6679,8
360	345,300	6679,8
365	345,300	6679,8
370	345,900	6676,2
375	345,900	6676,2
380	345,900	6676,2
385	345,900	6676,2
390	345,900	6676,2
395	345,900	6676,2
400	345,900	6676,2
403	345,900	6676,2
404	349,300	6684,1
406	351,000	6688,0
408	351,500	6689,2
410	351,500	6689,2
412	351,500	6689,2
414	351,500	6689,2
416	351,500	6689,2
418	351,500	6689,2
420	351,500	6689,2
422	351,500	6689,2
424	354,900	6697,0
426	357,200	6702,3
428	358,300	6704,8
430	358,300	6704,8
432	358,300	6704,8
434	358,300	6704,8
436	358,300	6704,8
437	358,300	6704,8
438	353,200	6693,1



II B-1080

NOTES:

1. This Drill Stem Test straddled the open hole with this pressure gauge below the "packed-off" section of the borehole.

Golder Associates

C-b TRACT HYDROLOGY

Borehole no. 21 — Drill stem test no. 2

Date: Dec. 21, 1974 — Intervol tested: 950-1000 ft

Pressure gauge: Johnston (Upper)

Formation tested: Parachute Creek above the A Groove

SG - 21 — D.S.T. - 2

8605324

TN
859
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C3755
NO.3
V.4